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OCTOBER 13, 1928.

Vol. CIX.



THE BEST HOUSE FOR ALL PHARMACEUTICAL PRODUCTS

Proprietors of the "Silver Churn" Dairy Preparations

OLDFIELD, PATTINSON & Co.
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TELEPHONES: City 984 & 4038. MANCHESTER

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"TORCH" BRAND Extract of Malt & Cod-Liver Oil and avoid price cutting

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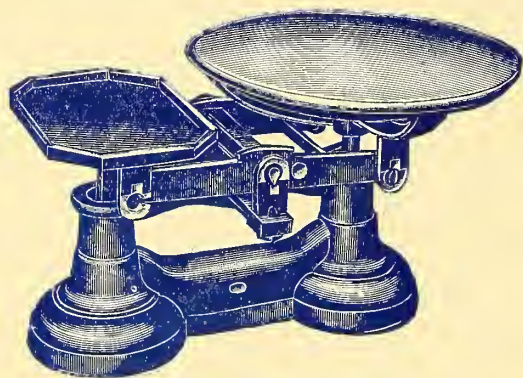
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$\frac{1}{2}$ lbs.	1 lbs.	2 lbs.	4 lbs.	7 lbs.
7/4 $\frac{1}{2}$	11/-	19/6	36/6	61/9

Write for special Contract Prices

ALLEN & HANBURYS Ltd., Bethnal Green, London, E. 2



May, Roberts' Maxims.

You cannot weigh Service on a pair of scales, nor measure it in a minim glass.

Yet what weighs with the Retailer is the amount of Service he receives from his Sundries House, and the measure of the Wholesaler's Success—financial and otherwise—is the quality of the Service he renders to the Retailer.

May, Roberts have gradually built up an organisation for the rapid and effective distribution of Proprietary Goods, Sundries, Bulk and Packed Drugs and Toilet Adjuncts, which they claim affords the Retail Pharmacist the maximum of service in return for the minimum of worry.

We are always at your service to obtain any special requirements wanted "by return." A special "Wants" department, with a young army of messengers, is maintained to uphold this important feature of the "May, Roberts' Service."

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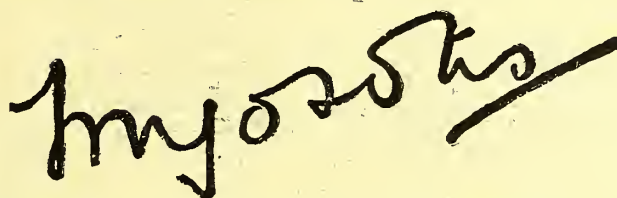
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Merveilleuse	-	-	-	4/-	10/6	21/-
Lily of the Valley				4/-	10/6	21/-
Wallflower	-	-	-	4/-	10/6	21/-
Gardenia	-	-	-	5/6	12/6	25/-
Val Fleuri	-	-	-			63/-

Subject to the usual terms.

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Apply for Terms to—

MYOSOTIS LIMITED

7 Hanover Square, London, W.1

SPAIN INTRODUCES A NEW TOILET SOAP,



HERE, reproduced in miniature, are some of the full page advertisements which will start appearing on October 31st. The showcards (size 10" x 5") will make an attractive picture in your window or on your counter.



By appointment to
Their Majesties the
King & Queen of
Spain.

PERFUMERIA GAL :: MADRID

GAL TOILET SOAP, long famous in Spain, is now being introduced to this market in a manner befitting its distinguished position. An exquisite soap, at a popular price, with a capacity to please which will bring increasing sales.

Six = Million = Nine = Hundred = Thousand Sales Messages Working for You

Nearly SEVEN MILLION advertisements for GAL. Over THREE-AND-A-HALF MILLIONS of them to appear before Christmas.

By actual statistics each of these advertisements will be seen by five people, making the staggering total of almost thirty-five million times that GAL advertising will be seen in the near future. And seventeen million times in the short period between October 31 and Christmas.

The GAL campaign concentrates on hands—for quick sales. GAL advertising is going to make intelligent persons look at their hands—examine their hands—and be critical of their hands—in short, make them *hand-conscious*.

OCTOBER 31

Note that day. Then the great GAL campaign starts. From then onwards the following publications will contain full page advertisements, some in three colours, advertising GAL TOILET SOAP

*Vogue :: Tatler :: Sketch :: Eve
Good Housekeeping :: Woman's Journal :: Nash's :: Lady
Bystander :: Graphic :: Queen :: Punch*

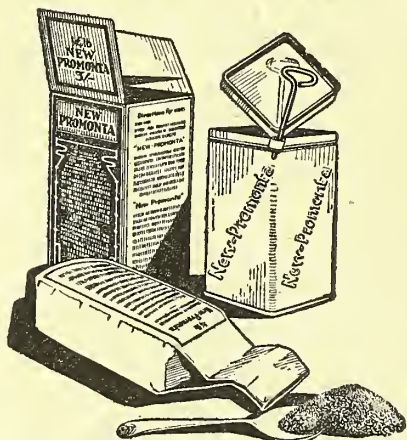
That great list of magazines will be constantly advertising GAL TOILET SOAP—creating sales for you—at the unusually large profits GAL offers you. *But GAL will be famous in the world of refinement before Christmas for GAL is an ideal Christmas gift and a new one.*

YOU can make this advertising campaign YOUR campaign, and take your profits from the many thousands of pounds we are spending to bring you business.

TRADE TERMS GAL TOILET SOAP retails at 1/- per tablet and 2/9 per box of three. The price to you is 11/- per dozen tablets, less 33½ per cent discount P.A.T.A. This means you make nearly 4½d. per tablet. Order from your usual wholesaler and ask for display material. If you experience any difficulty in obtaining supplies, write direct to us, mentioning the name of your usual supplier.

PERFUMERIA GAL (London) LTD., 76 STRAND, LONDON, W.C.2. Telephone TEMPLE BAR 4662

A NEW SCIENTIFIC FOOD FOR THE NERVOUS SYSTEM



In Powder form "New-Promonta" is packed in handy sealed boxes of two sizes containing $\frac{1}{4}$ lb. and $\frac{1}{2}$ lb. respectively.



In Tablet form "New Promonta" is packed in flat boxes each containing 54 tablets. An aluminium tube, which holds a day's supply and can be carried easily in the pocket, is included in every box—a feature of great convenience to travellers and those professionally engaged.

AN ORGANIC FOOD preparation containing the *Lipoids* of the substance of the central nervous system and the *Vitamines*, A, B, and D, combined with Lime, Iron, soluble Lacto-Albumines, Hæmoglobin and Carbo-Hydrates.

A perfectly pure natural Tonic food prepared scientifically under the supervision of experts. An unequalled Reconstituent for both Children and Adults in all cases of weakness or the after-effects of illness.

"NEW-PROMONTA" is prescribed and recommended by the Medical Profession.

"NEW-PROMONTA" is used in Hospitals and University Clinics.

"NEW-PROMONTA" gives tone and power to the Nervous System and Brain.

"NEW-PROMONTA" increases the Appetite and aids Digestion.

"NEW-PROMONTA" enriches the Blood.

"NEW-PROMONTA" gives an increased Vitality.

"NEW-PROMONTA" is extremely palatable to persons of all ages.

OBTAINABLE FROM THE PRINCIPAL WHOLESALE CHEMISTS AND SUNDRIES HOUSES

PRICES (P.A.T.A.) for Great Britain and Ireland:

POWDER, Boxes of $\frac{1}{4}$ -lb. net 3/-. Boxes of $\frac{1}{2}$ -lb. net 5/6. **TABLETS**, Boxes of 54 3/6.

Special Packing for Export.

Prices on application.

NEW-PROMONTA

A SCIENTIFIC FOOD FOR THE NERVOUS SYSTEM

PROMONTA COMPANY LIMITED, WESTMORLAND HOUSE,
127/131 REGENT STREET, LONDON, W.1.

Telephone : Regent 7950.

Telegrams : Nupromonta, Piccy, London.

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The Choice of Careful Buyers

Careful buyers invariably choose Staff Allen's Powdered Tragacanth because of its consistently high standard of quality. Write for samples and prices. Staff Allen & Sons, Ltd., Drug Millers since 1833, London, E.C.2

Staff Allen's

POWDERED

TRAGACANTH



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"BUTTER SCOTCH" MALT & OIL

THE ACME OF QUALITY WHICH KEEPS INDEFINITELY FOR HOME AND EXPORT

IMMEDIATE DELIVERY GUARANTEED; IN ALL PACKS (JARS,
CONTAINERS, DRUMS, TINS OR BARRELS)

BUY FROM ACTUAL MALT EXTRACT MAKERS:—

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OUR EMULSIONS

are first-class products—never any trace of separation or deterioration

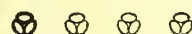
As a pharmacist, you know that only the most up-to-date machinery and finest ingredients can make really good emulsions. We use both. In fact, we have just installed additional plant to cope with ordinary demands and the repeat orders of pharmacists who have found how profitable and reliable "Specialty" Emulsions can be.

Take your full profit from good emulsions this Winter. Write at once for samples and prices and "own name" label terms.



'Specialty'

products bring prestige and profit to your pharmacy



ANGLO-AMERICAN OIL COMPANY, LIMITED.

Specialty Department:

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Telephone: Hampstead 8066-7-8.

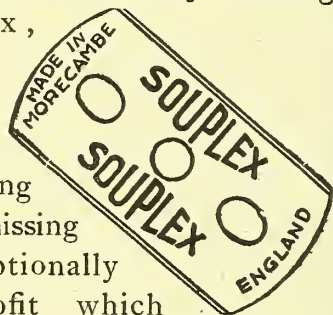
Telegrams: "Nufinjal, Norwst, London."

NO MISTAKE

can be made by stocking Souplex Blades as their wonderful quality and low price have created a tremendous demand.



If you are not already stocking Souplex, order a supply to-day, by delaying you are missing the exceptionally good profit which Souplex Blades yield the Chemist.



They sell easily because there are no better blades made—irrespective of price.

ORDER NOW.

SOUPLEX

FIVE
for
1/3
YOUR
PROFIT
5D.

**SOUPLEX
LIMITED
MORECAMBE**

TEN
for
2/6
YOUR
PROFIT
10D.



Shingled Heads Need More Shampoos

Here is a range of Shampoo Powders—showing you an unusual profit—made by a firm that specialises in scientifically compounded preparations for the hair. These Shampoos have been used for years in a Bond Street Hairdressing Salon, yet they retail at little more than half the usual price for a good shampoo.

Shampoo Powders are a profitable and quick-selling line now that shingled heads are in the majority, for shingled hair needs regular and frequent washing to keep it in condition. And these Shampoos are so exceptionally good and reliable that customers come back for them again and again. They bring you both profit and goodwill.

	Retail Price	Net Wholesale Price
Stewart's Hairtone Shampoo Powder..	3d. each or 1/6 for 7 sachets	12/- per dozen boxes of 7
Free from excess of alkali for any kind of hair.		
Stewart's Goldentone Shampoo Powder..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
A Camomile preparation for blonde hair which brightens and beautifies.		
Stewart's Silvertone Shampoo Powder..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
Specially prepared to keep grey hair from going yellow.		
Stewart's Hennatone Shampoo Powder..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
For brown hair—gives richness of tone.		
Stewart's Pinetone Shampoo Powder..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
Medicated and antiseptic for impoverished hair.		

MADE BY THE MANUFACTURERS OF

NUCTONE
FOR GREY HAIR

STEWART, GOODALL & DUNLOP, LIMITED,
4 Dering Street, London, W.1.

Irish Free State Depot: 31 Wicklow Street, Dublin.

Obtainable from your usual Wholesalers or direct from

J. C. GAMBLES & CO., LTD.
211/215 BLACKFRIARS ROAD, LONDON, S.E.1.

WATCH THIS PAGE! for SPECIAL ANNOUNCEMENT of the LARGE NEW ADVERTISING CAMPAIGN

**NEW
MIX**

COMMENCING VERY SHORTLY

This new advertising scheme is of special interest to every chemist in the country.

The new 1/6 tube recently

marketed will be brought prominently to the fore, opening out new avenues for New Mix sales.

Now packed in TWO SIZES
retailing at 1/6 and 2/- per tube



GILMONT PRODUCTS, Ltd.
35 CRUTCHED FRIARS, LONDON, E.C.3

If you want good profits quickly and regularly

You must stock Moorland Heart Shape

"Talk about sales," said Mr. Moorland, cheerfully, "Why, you'd hardly credit the way our trade in these remarkably popular digestive tablets has grown lately. Passed all expectations. And when we're selling them so fast it can only mean one thing, and that is that the Pharmacist is selling them fast as well. So don't let your stocks get too low and risk passing some good business. Better let me have your order right away while this is in your mind."

**"Moorland's" never let
you down—the sales are
continually increasing—**



One doz. 4/6; One gross 51/-; Retail 7½d.

ORDER NOW—AND KEEP YOURSELF BUSY

An abundant supply of effective showmatter is sent out with every order and a display on your counter or in your window will make heaps of quick and profitable sales. Just you try it and increase your banking account.

W. B. CARTWRIGHT LTD. RAWDON NEAR LEEDS

Maw's



Page

All the world loves a bargain

That is why, round about this time of the year, if you drop into Maw's showrooms you are sure to find a number of pharmacists accompanied by Mrs. Pharmacist.

Mr. Pharmacist is there because he knows that he will find new goods and new ideas wherewith he may satisfy that desire for a bargain which is keenest of all with the buyer of Christmas gifts.

He knows he will find the means of making the coming Christmas season more profitable than last, even in face of the keenest competition.

Mrs. Pharmacist is there to satisfy her own love of a bargain ; to purchase most successfully and economically her Christmas gifts to her friends and, possibly, that special gift from Mr. Pharmacist to herself.

She knows that she can find here an infinite variety of gifts which she cannot find anywhere else. She knows, also, that she can save money by buying her Christmas gifts at Maw's.

Our showrooms are made especially attractive at this time of the year. They are, in fact, a treasure house of wonderful bargains.

This year they have been specially re-arranged for our Christmas displays and are more inviting than ever. To Mr. Pharmacist they mean more business and increased profits. To Mrs. Pharmacist they mean economy and greater satisfaction in gift buying.

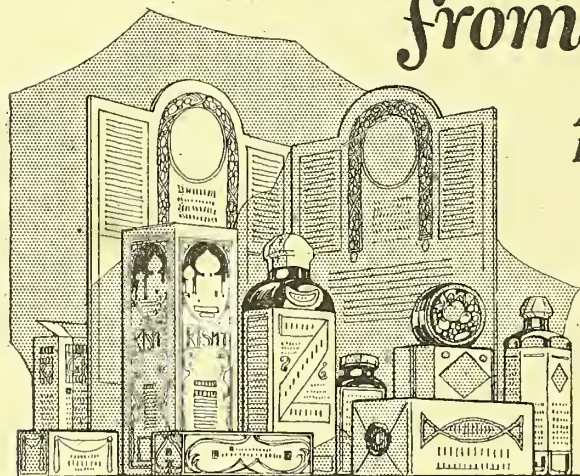
We invite you to visit our showrooms

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.





*~and the same
with our printing~we'll buy
from the specialist*



*A Chemists' Printer for Chemists'
Printing—that's the idea.*

No time is wasted in teaching Waides what we want. They know. They have had 50 years' experience in devising artistic printing for Chemists, and they are doing it better and better every year.

"Waide" Labels, Cartons, Showcards and Folders are pharmaceutically correct, as well as being tasteful and original in design.

THOMAS WAIDE & SONS LTD.
CHEMISTS' PRINTERS
DARLINGTON STREET, LEEDS.



When asked for the best exterminator for Rats or Mice you will satisfy the customer by recommending

LIVERPOOL VIRUS

Absolutely harmless to human beings and all domestic animals.

Cannot contaminate food.

Drives them from their holes in search of water, so that they do not die under the floor boards.

Spreads death from Rat to Rat, which renders it uncostly.

Place a display box of LIVERPOOL VIRUS on your counter and watch how it attracts.

Evans'

EVANS SONS LESCHER & WEBB, LTD.
LIVERPOOL & LONDON

DON'T SAY WE DIDN'T TELL YOU



Phone: Regent 2764

W. L. DREYFUS
SOLE AGENT IN THE U.K. AND IRISH FREE STATE
FOR
S. A. BERTIMAY, PARIS



40, Great Marlborough Street,
LONDON, W.1

October 13th, 1928.

Dear Sir,

Here is something that is entirely new, that is French, that is smart, that brings within the reach of thousands of women a luxury they could not otherwise afford - Poudre Bertimay, the new Parisian face powder in inexpensive 21 day sachets.

When Monsieur Bertimay made the daring experiment of putting expensive luxury face powder into paper sachets and offering them for a few pennies he achieved fame overnight. Paris flocked to buy. Today Poudre Bertimay is the success of the Boulevards!

Tomorrow it will be a triumph, and the talk of the trade, in England too. We know what will happen in England. We have tested the market privately.

An outburst of approval and a storm of buyers acclaimed Bertimay in Paris. Do you doubt what will happen in England when we tell you that 80% of English women approached, asked "Where can I get a powder with that perfume?"

Never before has the woman of moderate means been able to afford to use powder of this texture and heart stirring perfume. Can you imagine any better way to raise your public's tastes, arouse their desires? To prepare them for the higher price box to come?

Can you foresee anything but success, especially when we tell you that the biggest National advertising campaign ever launched in Great Britain to introduce a new face powder will start right away?

There is no doubt about it; you are going to get big and immediate demand for Poudre Bertimay. Be among the first to offer this craze of Paris to your clients. I will send a representative to give you all details if you drop me a line today.

With compliments,

Yours faithfully,

W. L. Dreyfus

Colour in the Window

ANOTHER NEW SELLING HELP.—In addition to our renowned Grey, supreme quality, original seamed Hot Water Bottle, we now introduce an assortment of colours, including Red, Cherry Red, Blue, Green, Yellow and Brown. A few of these added to your stock and displayed with Ayrton's Window Show will increase the selling power of your window,



Display Pays

Each Hot Water Bottle is enclosed in the finely printed envelope illustrated above, on the reverse side of which is printed instructions for the care and use of the bottle.

In addition, a full Window display is available, which makes people stop, look, ponder, and buy.

FINEST GREY HOT WATER BOTTLES.

		8x6	10x6	10x8	12x8	12x10
SINGLES	each	2/10	3/1	3/4	3/10	4/6
DOZEN	per doz.	33/-	36/-	39/-	45/-	53/-
3 DOZEN	"	32/-	35/-	38/-	44/-	52/-

SPECIAL CONTRACT QUANTITIES, delivery to be completed on or before December 31, 1928.

		8x6	10x6	10x8	12x8	12x10
6 DOZEN	per doz.	31/-	34/-	37/-	43/-	51/-
12 "	"	30/-	33/-	36/-	42/-	50/-

FINEST COLOURED HOT WATER BOTTLES.

Red, Cherry Red, Blue, Yellow, Green and Brown.

		8x6	10x6	10x8	12x8	12x10
SINGLES	each	3/3	3/6	3/10	4/6	5/1
DOZEN	per doz.	38/-	41/-	45/-	53/-	60/-
3 DOZEN	"	37/-	40/-	44/-	52/-	59/-

Chemist's own name moulded on not less than 3 dozen assorted.

Prices for other sizes and MOULDED bottles on application.

AYRTON, SAUNDERS & CO. Ltd., 34 HANOVER ST. Liverpool, Eng.

just a
"scoop" with
this filler and
into the carton—



Simple, isn't it? And it is just this simplicity that has caused hundreds of chemists already—within 3 weeks of its introduction—to adopt this highly profitable scheme.

GLOSSETTES are supplied to you in bulk, complete with sufficient half-ounce cartons (same size as any usual $4\frac{1}{2}$ d. tin) to take the whole quantity. This labour-saving filler, holding almost exactly half an ounce, is also supplied free. There is thus no tedious weighing—just a scoop with the filler and into the carton. It takes less than ONE MINUTE to complete a dozen cartons.

Each carton costs $1\frac{1}{2}$ d. (or less, on "best terms") and sells for 3d.

Beautifully executed window show-screen—full of "force," and a special miniature screen for the counter, available—plus 10/6 payment for display.

Send a postcard NOW for details.

ERNEST JACKSON & CO. LTD.

LONDON DEPOT
Plantain Place
Crosby Row.
Boro. S.E.
Phone. HOP. 2668.

MANUFACTURING CHEMISTS
Makers of Lozenges, Pastilles & Compressed Tablets
CREDITON. DEVON.

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GREDITON 10
Telegrams
JACKSON, CREDITON



The "SOUCHETS" SEASON

BE ready for the winter with a good stock of Licorice and Menthol "Souchets"—the "licorice preparation de luxe." Profitable to the Chemist and economical for his customers, the convenient tins of vest-pocket thinness, are supplied in effective outers for counter display. They will sell at sight.

6d. tins 3/9 dozen 1/- tins 7/6 dozen
Gross lots 3/7½ dozen Bulk 4/6 lb.



To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Liverpool.

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

C/693

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To-day's best investment—a case of

R.S.M.

(Reigate Standard Mint)

English re-distilled and blended PEPPERMINT OIL



White, Tomkins & Courage Ltd.
Reigate, Surrey

Telegrams : Esswhite, Reigate.

Telephone : Reigate 480.

Chemical Works "Flora"
DUBENDORF, ZURICH - SWITZERLAND

Manufacturers of

**SYNTHETIC & AROMATIC
CHEMICALS**

SAMPLES ON and
APPLICATION.

CHLOROPHYLL
OIL AND SPIRIT - - SOLUBLE.

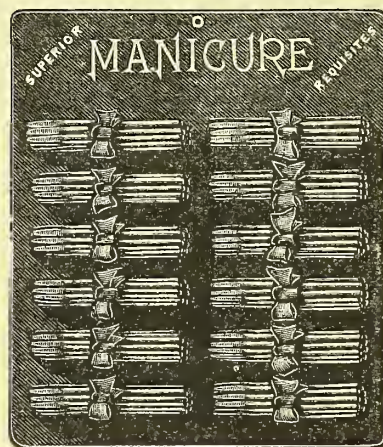
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IN LONDON.

Samples and particulars from—

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St. Mary-at-Hill, London, E.C.3

**"Buying Foreign"
is not necessary**

*We can meet competitively all Druggists'
Sundriesmen's requirements*



IN
MANICURE
GOODS,
ORANGE
STICKS, &c.
Carded
& Boxed

**Wholesale
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Only.**

*Send your
enquiries
now to the
English
makers—*

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Something New!

Boudoir Powder in an Original Pack

A pack that is worthy of the excellent quality of the contents. This sums up the new and better "pack" for

"Mists (of the) Moon" Boudoir Powder

A wide, shallow tin that prevents the powder from spilling when the puff is inserted—a tin that is a charming ornament and will be used as such.

These are points which your customer will appreciate.

This superfine powder—smooth and delicately perfumed—in the new attractive container is sure to make an instant appeal. It will make an ideal counter display and attract sales.

WRITE FOR PRICES
AND FULL PARTICULARS.

Cussons

KERSAL VALE, MANCHESTER.



PERFUMERY

- ☞ Satisfaction to your customers, combined with generous profit to yourself, results from the sale of Houbigant and Cheramy Perfumery. Many lines are in constant demand, and sales of other articles may be promoted by the display of a few dainty flacons of perfume.
- ☞ Our Representatives are now visiting you and displaying samples of seasonable articles.
- ☞ Should you be in London you will be welcome at our Showrooms at No. 90 Regent Street, W.1, where samples of all Houbigant and Cheramy Perfumery may be seen and tested.
- ☞ If you cannot see our Representative and cannot visit our Showrooms, may we send you our Price List and Terms?

PARFUMERIES DE PARIS, LTD.
ACTON, LONDON, W.3

'Phone : Chiswick 1525. Telegrams : Pariparum, Act, London.



THE MERITS OF SANTONIN

AS A WORM MEDICINE
ARE WELL ESTABLISHED.
YOU CAN BE CERTAIN OF
GIVING SATISFACTION TO
VETERINARY CUSTOMERS
IF YOU SUPPLY SANTONIN



*Supplies of Santonin can now be obtained
in bottles (under original Factory Labels) of*

1/4 oz., 1/2 oz. and 1 oz.

Write for Booklets

"Worms in Pigs"
"Worms of the Dog"
"Common Helminths
in medical practice"

Packing free.

Supplies obtainable from all
Wholesale Druggists.

Sole Representatives of the
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**Hundreds of
Well-known
people
strongly recommend
LINTOX
DISTEMPER CURE**

The strongest sales argument for LINTOX is the testimony of well-known users. In our files are original letters . . . in our literature we reprint some of these excellent testimonials.

This literature representing the opinions of famous people and well-known dog fanciers is the strongest sales argument you can use.

Lintox successfully treated an Alsatian dog owned by H.R.H. the Prince of Wales . . . it is used always in the kennels of H.G. the Duke of Beaufort.

50% Profit

Lintox yields to chemists a profit of 50% and is protected under P.A.T.A. regulations. Leaflets and Show-cards supplied.

**LINTOX DISTEMPER
PREVENTIVE CURE & TONIC**

Lintox

2/6

AND

5/-

BOTTLES



*Sole Distributing
Centre:*

*Beecham-Veno
Distributing Depot,
CHESTER ROAD,
MANCHESTER.*

HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair-Restoring Ointment.
Edos, or Tasteless Purging Powder.

HARVEY'S

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*Protected Prices
(P. A. T. A.)*

Remedies for the Horse



HARVEY'S

Koppos Powder.
Parasiticide.
Thrush Specific.
Hoof Ointment.
Hair Restorer (Human).

Of all the leading Druggists' Sundries Houses
HARVEY & COMPANY, Ltd., Dublin

NICOTINE

95/98% dark - coloured.
95/98% straw-coloured.

THE LIGHT MATERIAL OUR SPECIALITY.

Nicotine-Sulfate — *Enquiries solicited.
Agents wanted.*

BIGOT SCHÄRFE & CO., Chemische Fabrik G.m.b.H.
HAMBURG 5, GERMANY.

VETERINARY COUNTER PRACTICE. Price 7s. 6d. net,
by post 8s.

DISEASES AND REMEDIES. Price 5s., by post 5s. 3d.

THE PHOTOGRAPHIC CHEMIST. Price 3s. 6d., by post
3s. 8d.

THE "CHEMIST AND DRUGGIST," 42 Cannon Street, E.C.4

BENBOW'S DOG MIXTURE



Registered Trade Mark

The Original Medicine,
The Reliable Tonic.
90 Years' Reputation.

For Distemper,
jaundice, Destroying
Worms, &c., it is
invaluable. In
bottles or capsules.

Also BENBOW'S DOG SOAP

Can be obtained from your Wholesaler.

Sole Proprietors:

BENBOW'S Dog Mixture Co., 2 Bartholomew Close, London, E.C.1

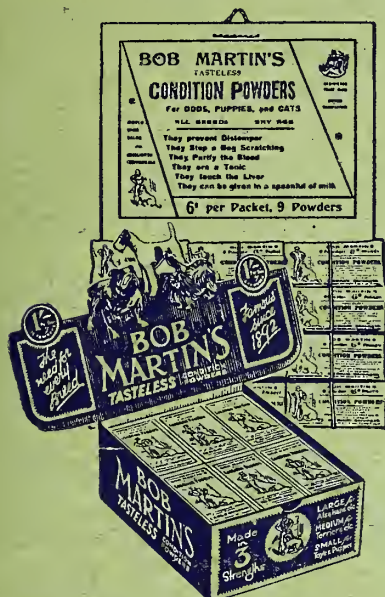
Rapid advance of the Dog Medicine business

Sales increase 600%
in 3 years

By

Bob Martin

Founder and Governing Director
Bob Martin Limited.



Bob Martin's Tasteless **CONDITION POWDERS** remove impurities from the blood and tone up the system. 1/- boxes (of 18 powders) in a display outer and 6d. packets (of 9 powders) on a hanging card. Trade terms: 7/6 and 3/9 per doz.



Bob Martin's **CLEANSFUR** is an anti-septic dry cleaner and saves a great deal of washing. Three 6d. packets in a display outer. Trade terms: 4/6 per doz.

Bob Martin's **WORM POWDERS** (for adult dogs) and **WORM TABLETS** (for toy dogs and puppies). One dozen 6d. packets on a hanging card. Trade terms: 4/6 per doz.



Bob Martin's **'92 OINTMENT**. The most useful dog remedy which any dog owner can keep in the house. One dozen 1/- tins in a display outer. Trade terms: 4/6 per doz.

ONE of the significant features of present-day life is the great care and respect shown to domestic animals. There are *three and a-half million* dogs in the United Kingdom, and the number is growing at so fast a rate that in less than a year's time one home in every three will have at least one dog.

Most of these dogs will be well looked after, which means that they will be conditioned and cleaned regularly. Breeders and Fanciers make no attempt to disguise the fact that a *domesticated dog must have occasional medicine*, and since my firm commenced advertising in the lay press three years ago, the majority of novice dog owners have also recognised the fact. (Our orders from Pharmacists and Wholesale Houses are six times greater this year than they were in 1925.)

The dog medicine with the largest sale in the British Empire is Bob Martin's Tasteless Condition Powders, and the other Bob Martin preparations are also the biggest sellers of their kind. We intend to increase the dog medicine business and at the same time maintain our position as leaders by continuing our educational type of press advertising, which instructs novice dog owners in the proper and timely use of dog medicines.

We shall be very grateful if Pharmacists will continue to give us their very kind co-operation.

BOB MARTIN LTD.
Union Street, SOUTHPORT

Specialists in Dog Medicines since 1892

A COMPLETE RANGE OF BOB MARTIN LINES can be had for £2 : 0 : 6. This parcel is made up of: **CONDITION POWDERS**, 6d. packets, 1 dozen Large Strength, 1 dozen Medium and 1 dozen Small; 1/- boxes, 1 dozen mixed strengths.

WORM POWDERS, 6d. packets, 1 dozen.

WORM TABLETS, 6d. packets, 1 doz.

'92 OINTMENT, 1/- tins, half dozen.

CLEANSFUR, 6d. packets, 1 dozen.

DISTEMPER POWDERS, 6d. packets, 1 dozen.

The retail price of this stock is £3 : 0 : 0.

BATTLE'S VERMIN KILLER

Of all Patent Medicine
Houses at 3/-, 5/6, 9/-,
18/- and 36/- per dozen.

In packets at 5d., 9d.,
1/3, 2/6 and 5/- each.
(P.A.T.A.)

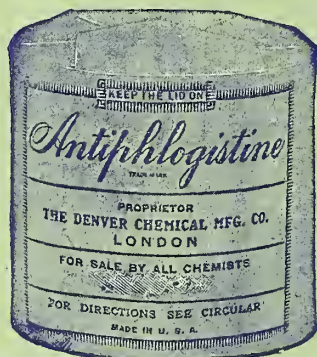
The *sure* destructive agent which may be confidently
recommended by Chemists for quick clearance of rats
and mice. (*Users' testimonials on request.*)

Prepared only by

J. C. M. BATTLE, Ph.C., LINCOLN

ANTIPHLOGISTINE

Write for quotation
and secure extra
discounts.



Write for quotation
and secure extra
discounts.

THE DENVER CHEMICAL MFG. CO.

41 ST. ANN'S ROAD

LONDON, E.3

SANTONIN

We have pleasure in informing our clients that we are now in a position to supply this product in $\frac{1}{4}$ -oz., $\frac{1}{2}$ -oz. and 1-oz. bottles (or 10, 15 and 25-gram. bottles) with the original Santonin Factory labels and seal WITHOUT EXTRA CHARGE.

If desired, the wholesaler's own name and address label can also be affixed to each bottle, and we trust advantage will be taken of this concession by the Distributing Wholesale Trade.

Supplies in 1-kilo original cartons or other weights can also be had as formerly.

CARNEGIE BROS.

227-229 ESSEX ROAD - - LONDON, ENGLAND

Cables: "Carnebro, London."

WHOLESALE AND EXPORT ONLY

Codes: A.B.C. 5th and 6th Editions, Bentley & Marconi

CONTRACTORS TO H.M. GOVERNMENT

SAFETY means SUCCESS

A CLEAN UDDER MEANS CLEAN SWEET MILK

Agents wanted for

"KINOSALVE"

THE FARMER'S FRIEND IN A HUNDRED TROUBLES.

No dairy farmer or cattle breeder can afford to be without this invaluable preparation. As an antiseptic healer and cleanser of cows' udders it has no equal. It purifies without taint. On many large dairy farms it is in use every day. For cuts and wounds on animals it is unequalled. This line will win you many firm friends among farmers.

We send free sample tins and leaflets for distribution.

"KINOSALVE" is used on DAIRY FARMS in all parts of the world.

RETAIL PRICES 1/6 and 2/6 Wholesale 10/- and 18/-

Make Application for AGENCY TO SOLE PROPRIETOR AND MANUFACTURER:

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WHOLESALE
MANUFACTURING CHEMIST

Telephone:
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(2 lines)

SHEN WORKS, TOWER BRIDGE RD., LONDON, S.E.1

Telegrams:
"USHENSPUNA" LONDON.

Applications for Agencies in Scotland should be addressed to
MESSRS. MADDOX, ALEXANDER & CO., 53 WATERLOO STREET, GLASGOW.



This Medicine is a certain cure for many of the most distressing ills to which Horse and Cattle Flesh is heir. It surpasses all other Remedies in its promptness of action.

WHY CATALINE PAYS TO STOCK.

BECAUSE it enjoys the largest sale of any Cattle Medicine Preparation and is on the P.A.T.A.

BECAUSE it is consistently advertised and all advertisements refer to the Chemist as the source of supply.

BECAUSE it is well packed, does what it is advertised to do, and shows the trade a satisfactory profit.

BECAUSE we do not employ travellers calling on Farmers or soliciting orders at cattle fairs or markets.

One size, retailed at face value, viz.

PER **3/9** BOTT.

Terms - Cash with order.
Carriage paid. Cases free.

1 doz., 36/- per doz. 6 doz., 35/- per doz.
3 doz., 35/6 12 doz., 34/6

Stocked by most Wholesale Houses.

THE CATALINE CO. LTD.
BRISTOL.

"VITAMEX" CATTLE MALT & COD LIVER OIL

*The Ideal Food Adjunct
for all FARM LIVE STOCK,
POULTRY, &c.*

"VITAMEX" has a wonderful effect in promoting the growth of young animals, in keeping stock in good condition and improving the quality as well as increasing the production of milk.

Wholesale
Distributors
Wanted.

Paine & Co.

Limited,
Malt Extract Works,
St. Neots - Hunts.



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AT YOUR SERVICE
ALWAYS

LAYOUTS } FREE
SIMPLE DRAWINGS

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LINE BLOCKS }
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HAYWARD'S SHEEP DIPS

ESTABLISHED 1842.



PASTE, POWDER AND FLUID

These Dips are well advertised and have a ready sale. Advertising matter supplied with all orders.

Dips packed in your Own Name if required.

LUDDINGTON'S OILS



A full range of Veterinary Lines under our Brand or your "Own Name"
Embrocations, Drenches, Powders, etc.
GOOD STYLE AND VALUE.



Eureka WEED KILLER



The Chemists' Favourite Brand. Easiest to sell. Sales through Agents.

POWDER AND LIQUID.

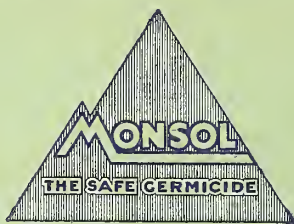
Please write for Terms, Lists, etc.

Eureka Specialities include : LAWN SAND WORM KILLER INSECTICIDES FUMIGANTS SUMMER SHADE

Well advertised. Reliable products.
Always saleable. Handsome retail packages.
Good leaflets and show cards.

Write for particulars.

TOMLINSON & HAYWARD, Ltd., 51, NEWLAND, LINCOLN
(ONLY ADDRESS.)



The Product of a MOND Laboratory

MONSOL VETERINARY PESSARIES

For the Cure of Abortion, Whites and Inflammation, and for general Disinfection and Cleansing.

This unique aid to Veterinary Hygiene is recognised as the greatest safeguard against the dangers and diseases attending parturition.

Monsol Veterinary Pessaries prevent the entry into the vagina of the Abortion Bacillus. They are invaluable in cases of cows "not standing to service," "turning," "not holding," etc.

A full descriptive Pamphlet will be sent free on application.

**For MARES, COWS, EWES, SOWS and BITCHES,
MONSOL PESSARIES are your sure safeguard.**

PRICES:

LARGE, for Mares and Cows
16/6 per doz., post free.

MEDIUM, for Ewes and Sows
8/- per doz., post free.

SMALL, for Bitches
5/- per doz., post free.

Manufactured by THE MOND STAFFORDSHIRE REFINING CO., LTD.

SOLE U.K. DISTRIBUTING AGENTS: **LEONARD SMITH & CO.**
Veterinary Chemists, CAUSEWAY MILLS, BLACKHEATH, BIRMINGHAM.

INJECTA (London) Ltd.

Telephone:
Holborn 0336.

Audrey House, Ely Place, London, E.C.1

Telegrams:
Injectalim-
Smith, London.

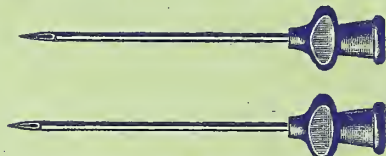
Sole Concessionnaires for:

WHOLESALE AND EXPORT ONLY.

INJECTA, A. G., BERLIN

ACTUAL MANUFACTURERS

M. KETTNER, BERLIN



VETERINARY NEEDLES. RUSTLESS CHROME STEEL. Rust-resisting to the very highest degree. Every needle is stamped on the mount "R.F." The quality is unsurpassed and the points of the needles DO NOT WEAR DOWN.

STOCK SIZES, 1.40 to 2.40 m.m.

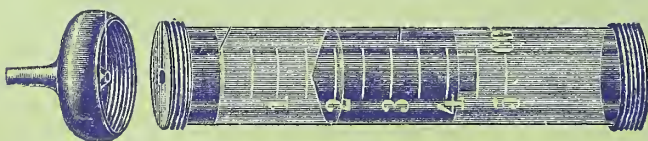
ORDINARY STEEL NEEDLES, made of SEAMLESS TUBING, ALSO IN STOCK.

VETERINARY INSTRUMENTS.

MILKING TUBES
MILK FEVER OUTFITS
METAL CATHETERS
ENEMA APPARATUS

TROCARS for Cattle
ditto Sheep
WOUND SYRINGES
LAMBING ditto

SUPPLIERS of COMPLETE SETS of VETERINARY OUTFITS.



VETERINARY RECORD SYRINGES, SUPER QUALITY GLASS BARREL, WITH INDESTRUCTIBLE BARREL, graduated piston rod, special nozzle to use with VETERINARY NEEDLES. STOCK SIZES, 5, 10, 20, 30, 50 c.c.

VETERINARY NEO-RECORD SYRINGES, WITH INTERCHANGEABLE BARRELS, SPECIALLY SUITABLE FOR USE WHEN TRAVELLING. ALL SIZES IN STOCK.



Southall's

VETERINARY REMEDIES

ALL CAREFULLY PREPARED
FROM
THOROUGHLY TRIED-OUT FORMULÆ.

**CUSTOMERS' OWN RECIPES COMPOUNDED AND PACKED.
ONLY BEST INGREDIENTS USED.**

"RED STAR"
— REGISTERED —
CATTLE REMEDY

**An Unequalled Treatment
for
CHILLS, MILK FEVER,
GRIPES, COLIC, SCOUR,
and all types of
Inflammatory Disorders.
10-oz. Bottles. 15/6 Doz.**

OTHER DEPENDABLE VETERINARY SPECIALITIES.

Aconite Cough Pdrs. (Boxes of 6) 7/3	Gall Cure (2-oz. Tins) .. 4/9	Pig Powders (Worms) .. 3's 6/- 6's 10/-
Cattle Castor Oil (Rep. Pts. & Qts.) 12/- & 17/9	Gape Cure (10-oz. & 20-oz. Tins), 7/3 & 12/6	Pining & Wasting Remedy .. 20/-
Cattle Salve ($\frac{1}{2}$ -lb. & 1-lb. Tins), 12/6 & 23/6	Greyhound Rousers (Tubes of 42) 12/-	Red Cattle Drench ($\frac{1}{2}$ -lb. Packets) 5/3
Cleansing Drench ($\frac{1}{2}$ -lb. & 1-lb. Pkts.), 9/- & 16/-	Horse Condition Powders (1-lb. Tins), 15/3	Red Water { Pkts. of 12 Pdrs. 12/6 Cure " 24 " 22/9
Colic and Scour Fluid (3-oz. bottles), 9/-	Husk & Hoose Mixture (8-oz. Bottles), 12/3	Ringworm Ointment (in Tins) 5/6 Scour Remedy { Pkts. of 2 Pdrs. 6/- " 4 " 10/-
Drying Drench ($\frac{1}{2}$ -lb. Packets) .. 6/8	Malefern Extract .. { 1 oz. 10/- 2 oz. 17/6 4 oz. 32/6	Tonic Powders { 6 oz. Pkts. 4/9 (Horse & Cattle) 12 oz. " 8/-
Drying Lotion (2-oz. & 4-oz. bottles), 5/6 & 9/6	Mice & Rat Exterminator { 3 oz. 6/6 6 oz. 11/- 12 oz. 18/6	White Scour { Boxes of 6 Pdrs. 4/3 Cure " " 12 " 7/6
Embrocation { (Horse & Cattle), { 5 oz. 9/- 10 oz. 12/9 20 oz. 21/9	Pig Powders (Condition) .. { 6's 4/9 12's 8/-	Worm Powders (Dogs) .. 3/-
Foot Rot Paste ($\frac{1}{2}$ -lb. Jars) .. 11/6		Worm & Condition (Horses) Pkts. of 15 Pdrs. 8/6

DETAILED LIST OF VETERINARY SPECIALITIES FREE ON REQUEST.

Specially Reduced Prices for Quantities——Name and Address Free on 3 Dozen.

SOUTHALL BROS. AND BARCLAY, LTD., PACKED GOODS SPECIALISTS, BIRMINGHAM

CORNER'S OILS

have 80 years' reputation as a remedy for
Accidents and Animal Ailments.

Protected Retail Price - - - 2/9 per bottle.
Wholesale - - - - - 24/- per doz.

P.A.T.A. Nett 1 month.

Carriage Paid on 3 dozen Lots.

EVANS, GADD & CO., LTD., having the
sole proprietary rights in the above excellent
and well-known article, are prepared to appoint
Agents on liberal Terms.

For Window Show Terms, apply to

EVANS, GADD & CO., LTD.
REDCLIFF STREET, BRISTOL, and FORE STREET, EXETER.

NALDIRE'S PRIZE MEDAL DOG SOAP

Small and Large Tablets.

NALDIRE'S Worm Powders for Dogs.
Packets, 1/3, 2/6, 4/3 & 5/6.

Offices : 23 PANTON STREET,
HAYMARKET,
LONDON, S.W.1.

WRIGHT & HOLDSWORTH,
Sole Manufacturers and Proprietors.

Season—1928



Agent for Scotland:
ANDREW STEVEN,
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COD LIVER OIL

GUARANTEED GENUINE. FINEST PURE LOFOTEN.

Manufacturers :

BRÖDR. AARSÆTHER A/S, Aalesund, Norway.
LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.
SPECIALITY—Cattle and Poultry Feeding Oils.

Stocks always held in London.

In 25-gallon tin-lined barrels.

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Tel. Add.: "FREUDENRUF." 21 Mincing Lane, LONDON, E.C.3. Tel.: ROYAL 6600.
Codes used : A B C, 4th and 5th Edit., Bentley's, and Private.

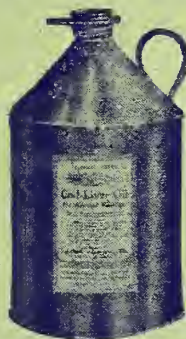
For Animal Feeding



"Plough" Brand Cod-Liver Oil

Experiments have proved that even in small doses this oil has a wonderful effect in promoting the growth and generally improving the condition of stock. For enriching separated milk to render it fit for rearing calves, cod-liver oil has proved to be much superior to oil cake, linseed oil, etc. Experience proves that calves fed on milk enriched in this way show a steady increase in weight and develop into strong healthy animals. Pigs benefit to a remarkable extent from the use of this oil; it increases their weight and improves their condition. The cod-liver oil must, however, be rich in vitamins; this can be assured by ordering "Plough" Brand Cod-Liver Oil. It does not give rise to any fishy taint in the milk or flesh of the animals.

*Literature supplied to chemists on application
for circularising farmers and stockbreeders.*



Tins, $\frac{1}{2}$ gal., 4/3

Tins, 1 gal., 7/6

Tins, 5 gals., 35/-

*Subject to the usual
Speciality Discount.*

Half wine bottles
(12 to the gal.) 1/3

Wine bottles
(6 to the gal.) 2/-

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BARRELS, 25 gal., 120/- net; RETAIL PRICE 150/-

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ALOES CURACAO all grades.
ARECOLINE HYDROBROMIDE.
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COD LIVER OIL spot and forward.
EXTRACT MALE FERN high filicin content.

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WORMSEED OIL, U.S.P.

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CHEMICALS, DRUGS AND ESSENTIAL OILS
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The OLD STRAND CHEMICAL & DRUG Co. Ltd.

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POWDERS**

40% PROFIT
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THE GREAT REMEDY for
Show Dogs, Sporting Dogs, Pets and Puppies.
ADVERTISED in Daily and Weekly Papers, Most Towns.

IN CARTONS :—
7 Powders **6d.** :: 16 Powders **1s.**

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THE SAFE REMEDY
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MOPING HENS and AILING POULTRY
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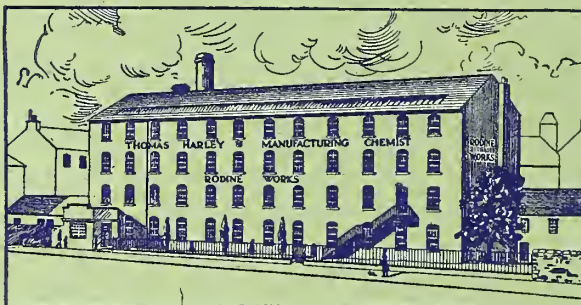
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Write for Price List to— Poultry, Dog & Pigeon
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SPECIAL OFFER
OF RODINE**

**HAVE YOU SECURED YOUR
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DON'T MISS THIS OPPORTUNITY !

Write now to the Rodine Proprietor—

THOMAS HARLEY, M.P.S.

Manufacturing Chemist, Rodine Works, P.O. Box 5

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Sheep Dips
Cattle Medicines
Embrocation (Veterinary and Household)
Foot Rots, Ringworm (Ointment & Lotion)
Lambing and Cattle Oils
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Send for our Full Price List.

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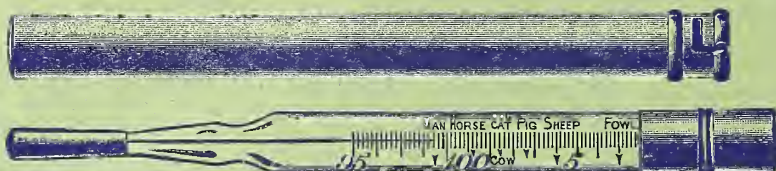
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MADE WITH THE SAME PRECISION AS INSTRUMENTS FOR HUMAN USE.

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No. 18. 4-in. Non-Magnifying in Nickel Plated Cases.

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ENTIRELY BRITISH MADE.

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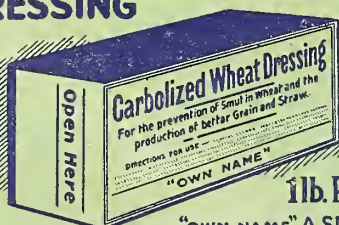
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Arsenic. Formaldehyde.
Copper Sulphate. Liq. Dressing.

CARBOLIZED DRESSING



1lb. Packets.

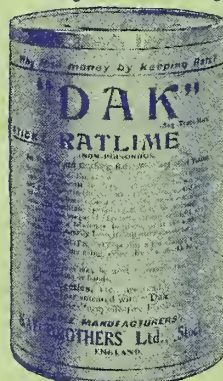
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CLOSE PRICES.
ENQUIRIES SOLICITED.

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Catches RATS and MICE as easily as flypapers catch flies



Be the first to introduce this modern, swift and safe method to your customers.

Excellent printed matter.

Striking showcards.

Generous trade terms

Tins to retail at 1/6, 2/6, 4/6 & 14/6;
also in 1/- tins for Mice.

Write for details — a good time is now.

From all Wholesalers or the Makers:

KAY BROTHERS LTD.

Manufacturing Chemists, STOCKPORT.

Makers of VIPER and FLYSAC sticky Flycatchers, FLYGUM, BIRDLIME, COAGULINE China Cement, TENASITINE Liquid Adhesive, ORBITE for Tree Banding, etc.

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51 NEWLAND - - LINCOLN

(ONLY ADDRESS)

For over 50 years have supplied
Chemists with

SEED DRESSINGS

packed under their own names, necessary advertising matter, &c. Tried Formulas. Best value and packages.



SULPHATE OF COPPER. LIQUID SEED DRESSING
FORMALIN, &c.

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VETERINARY COUNTER PRACTICE

A Treatise on the Diseases of Animals
and the most suitable remedies for them.

Written expressly for Chemists, by Qualified
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SEVENTH
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**CORPUS LUTEUM
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**ORCHITIC
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**(W. G. Anterior and
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**SUPRARENALIN
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**AMPOULES, TABLETS,
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*Every process from Pen to finished
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MEDICINAL PRODUCTS OF ANIMAL ORIGIN IN VETERINARY PRACTICE

These products are increasingly employed, with success, by veterinarians in the treatment of disease, many report that hitherto incurable conditions are responding.

A special Veterinary Price List with Therapeutic Index and Dosage Schedule is available for distribution to interested Pharmacists.

We dispense, by return of post in hard, gelatine capsules prescriptions for mixed or single glandular preparations.

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ARMOUR AND COMPANY
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QUEEN'S HOUSE KINGSWAY
LONDON, W.C.2.**

**TELEGRAMS: "ARMOSATA-WESTOENT," LONDON;
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A Great Welcome for Pond's Two *NEW* PREPARATIONS

Pond's Skin Freshener



Pond's Skin Freshener has become instantly popular because it closes the pores after the cold cream cleansing and makes the skin firm and fine in texture. Women have said how exhilarating it is to use, how it makes their skin tingle deliciously and brings the colour to the cheeks.

RETAIL PRICES :

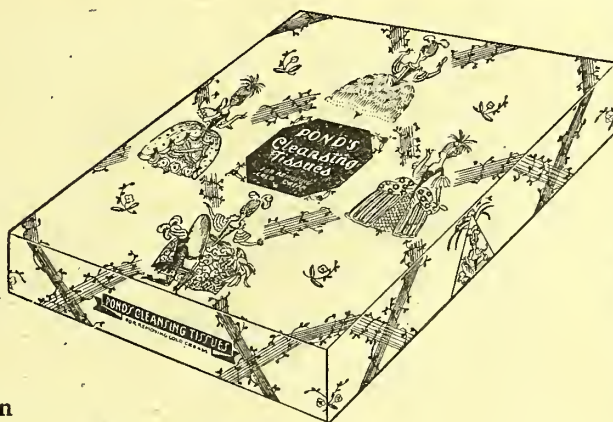
Pond's Vanishing Cream—Opal Jars, 2/6 and 1/3.
Tubes, 1/- and 6d.

Pond's Cold Cream—Opal Jars, 5/-, 2/6 and 1/3.
Tubes, 2/6, 1/- and 6d.

Pond's Cleansing Tissues—per box, 2/6 and 1/6.

Pond's Skin Freshener—per bottle, 5/6, 3/- and 1/-.

THE COMPLETE POND'S METHOD OF SKIN-CARE



Pond's Cleansing Tissues

There is no need to emphasise the utility and popularity of these new Cleansing Tissues. The use of a towel or cloth was a most unsatisfactory way of removing cold cream; now these soft tissues absorb all the cream and dirt and are thrown away after use. Thus all laundry costs are avoided.

From the Chemist's point of view they offer a double advantage: (1) they bring to his shop a portion of the trade that previously went to the drapers' shops for towels. (2) by removing one of the great drawbacks to the use of cold cream they increase its popularity and sale.

POND'S EXTRACT CO.

103 St. John Street, London, E.C.1

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| <p>1 POND'S COLD CREAM to cleanse the pores and tissues.</p> <p>3 POND'S SKIN FRESHENER to brace the skin and close the pores.</p> | <p>2 POND'S CLEANSING TISSUES to remove cold cream and impurities.</p> <p>4 POND'S VANISHING CREAM to give a perfect finish and protection from the weather, and to form a base for powder.</p> |
|--|---|

MERCOLIZED WAX

— : for the Complexion : —

and

STALLAX

— : a Shampoo : —

TWO substantial and well-advertised lines which show a handsome profit to the Retailer, and, moreover, may be stocked fearlessly owing to the Manufacturers' most liberal Sale or Return Guarantee.

Both are obtainable in two sizes, and their reputation and sterling value assure a steady turnover.

Order through your Wholesaler, or direct from:

DEARBORN (1923) LIMITED
37 GRAY'S INN ROAD, LONDON, W.C.1.

A NEW PACKING FOR **CALVERT'S** Carbolie Toilet Soap



ONE DOZEN 6d. TABLETS IN
 NEAT COUNTER DISPLAY BOX

List price **4/5** per box.

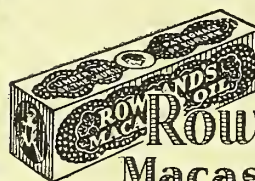
As the usual 3-tablet boxes (list price 13/6 per dozen boxes) will still be available, customers are requested to specify in their orders which form of packing they desire.

F. C. CALVERT & CO., MANCHESTER.

For 135 years

Rowland's Macassar Oil has been a favourite dressing for the hair. It keeps the hair healthy, and prevents the encroachment of greyness and baldness.

Of all Wholesalers.



RETAIL,
 3/6, 7/- & 10/6
 P.A.T.A.

**Rowland's
 Macassar Oil**

Red for
 dark hair
 Golden
 for fair or
 grey hair

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1
 RMST

SELL BRITISH BLADES.

CHARTUS BLADES

GILLETTE TYPE, Unequalled for Value, MADE IN ENGLAND.

Retail at **1/-** per packet of **10** blades.

TRY A SAMPLE BOX

obtainable from your wholesaler at 6/3 per box of 100 Blades, or from

S T A M B O I S
SAFETY BLADE SERVICE

7 Charterhouse Buildings, London, E.C.1.
 Branches at LEEDS, GLASGOW, DUBLIN.

Sole Irish Free State Agency and Stock Depot :

SOLWAYE FRERES, 11 & 11a Fishamble Street, DUBLIN.
 IRISH FREE STATE PRICE — 7/- per box, 1/3 per packet of 10.

A FREE GIFT FOR YOUR CUSTOMERS



DISPLAY THIS STRIKING CARD

Aralys Powder has achieved wonderful popularity, not only because of its exquisite fineness and smoothness, but also because of its subtle yet distinctive perfume. Aralys Cream, too, has scored a remarkable success as the ideal base for powder.

In order to induce still more of your customers to use these two delightful creations in conjunction with each other, we are offering a full size 1/3 tube of Aralys Cream free with every 2/6 box of Aralys Powder, for a limited period.

Special price 22/6 per doz. Cartons containing Cream and Powder.
Display terms—3 dozen lots 60/- net, carriage paid.

A striking and beautifully coloured window or counter card has been prepared to enable you to take full advantage of this generous offer.
Send your order now!

Aralys^{REGD} Powder & Cream

HAVE YOU BEEN LOOKING for a perfectly satisfactory threepenny vanishing cream? One that keeps soft and silky indefinitely? One that is heavily perfumed yet delightfully refreshing? If so, what about Peronia Eastern Poppy Day Cream, a new toilet luxury just on the market? It is a worthy companion to Eastern Poppy Powder, now supplied in four shades, which is already in such great demand. Both are packed in artistic aluminium boxes of generous size to retail at 3d. You are inclined to try them? Then here is a very special offer. The price is 2s. per doz. but a p.c. to the Peronia Co., Ltd., Stoney Street, Nottingham, will bring you six doz. of each, a gross in all, for 21s. the lot, carriage paid. How's that?

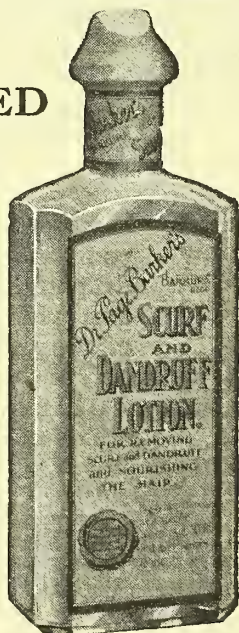
Every Bottle is GUARANTEED

EVERY bottle of Dr. Page-Barker's Scurf Lotion bears a positive guarantee that it will eradicate scurf or the purchase price will be refunded. This makes it the easiest to sell of all hair and scalp specifics. And the profit is handsome.

18/- per Doz.

Retail - 2/6

With every order for 3 dozen you get three 2/6 bottles as bonus, handsome metal show-stand, and attractive showcards.



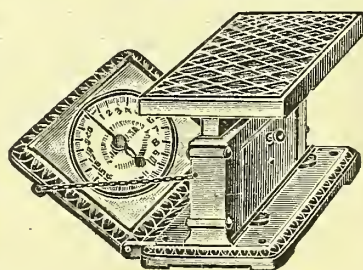
Dr. Page-Barker's Scurf Lotion

Thos. CHRISTY & CO., 4-12 Old Swan Lane, LONDON, E.C.4.

THE "JARASO"

PERSONAL WEIGHING MACHINE

BRITISH MADE



BALL
BEARINGS

Weighs from 1 lb. to 20 stone. Automatic. No weights required. Weight of Machine 20 lbs.

EXPORT PRICE 28/6 Cases Free
F.O.B. LONDON
(Smallest number shipped six machines.)

*This Machine can only be sold for
export to BRITISH COLONIES*

ALBERT C. SHOPPEE, Ltd.

(Wholesale and Export only)

Belmont St., Chalk Farm, LONDON, N.W.1

*Making your customers
buy their presents in your shop—
ensuring bigger profits for you*

This special Christmas Offer

*Here is what this generous
offer means to you*

1. You send for the special Christmas Assortment-A of the most popular Coty Perfumes —

Value of Assortment is £9 12 0

Cost to you £5 13 4

Your profit £3 18 8

(including 2 bottles of perfume gratis)

and you get FREE, the attractive display stand illustrated holding the assortment of Coty perfumes.

2. You send for Assortment B.

Value of Assortment £15 12 6

Cost to you £9 14 10

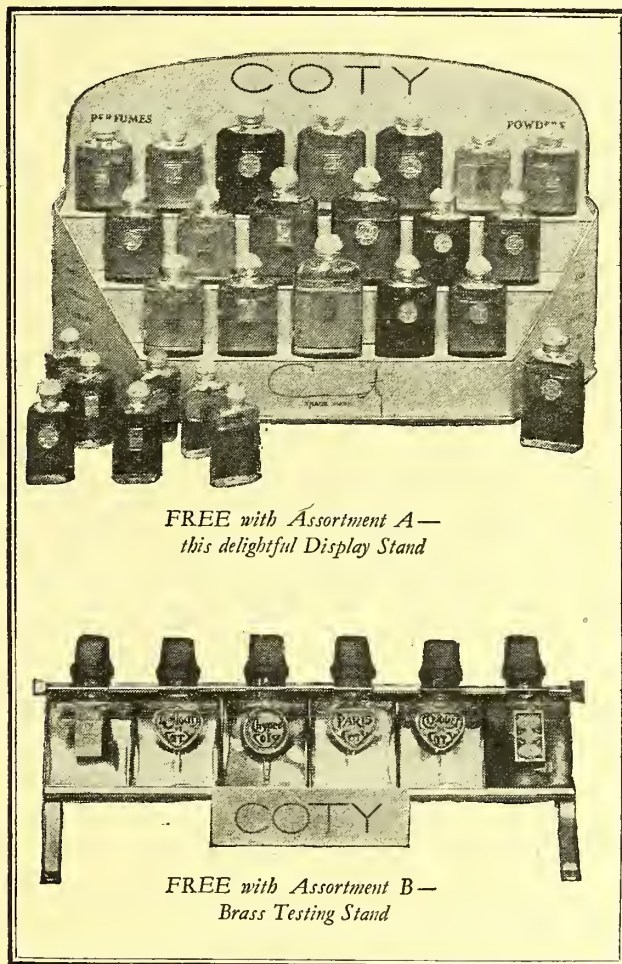
Your profit £5 17 8

(including 2 bottles of perfume gratis)

and FREE, this beautiful finished Brass Stand. In it, flasks of the 6 most popular Coty perfumes — FREE too. Your customers can test for themselves the perfume that will be perfect for them to give!

YOU GET — TOO —

Folder explaining the Bonus Scheme fully and illustrating all the Coty Christmas specialities this year; attractive booklets, illustrated on the same lines, for distribution to your customers; blocks of all Coty specialities, half-tone and line — for local advertising — just ask for electro list.



FREE with Assortment A—
this delightful Display Stand

FREE with Assortment B—
Brass Testing Stand

*Already hundreds of dealers have availed themselves of this
Christmas bonus offer. Write today to Dept. C.2, Coty (England)
Ltd., 3 Stratford Place, London, W.1 for full particulars!*

COTY

We supply the exquisite L' Aiglon

**POCKET SPRAYS
LIP STICKS
POUDRIERS &
CREAM BOXES**

MADE BY *aromys* OF PARIS

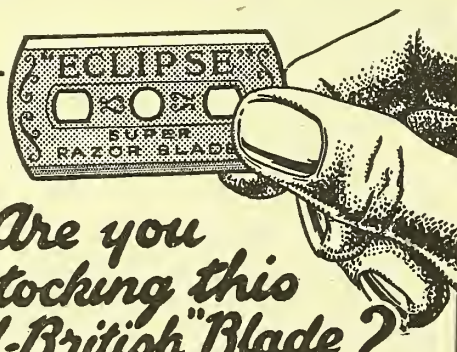
In chased gilt, galalith, enamel, mother-of-pearl, silver, etc.
They can be supplied separately or in cases holding two, three or four pieces.

If you will drop us a line our representative will call at the earliest possible time.

SPURWAY et Cie. Ltd. 89 Great Eastern Street LONDON, E.C.2

Phone: Bishopsgate 1372.

Wires: "Neroli, London."



*Are you
stocking this
"all-British" Blade?*

Eclipse Blades are made throughout in Sheffield from the highest quality Crucible Steel it is possible for us to produce and are British from Start to Finish.

"ECLIPSE"
(Gillette Type)
**SAFETY RAZOR
BLADES**

5 for 1/8 10 for 3/4

1 Box 100 Blades at £1 2 3 per box
5 Boxes 100 Blades at £1 1 8 "
10 Boxes 100 Blades at £1 0 10 "

Terms: Monthly less 2½ per cent.
Carriage paid on 3 box lots and above.

Obtainable from your usual wholesaler
or direct from the actual makers:

JAMES NEILL & CO. (Sheffield), LTD.,
Steel Manufacturers, Napier St., SHEFFIELD.

**"ODENTIC"
PLATE
BRUSH**

Regd. No. 417637.

From all
Wholesalers.

Counter Display Box with every 3 dozen.

Manufacturers:

W. R. Speer & Son

(EST. 100 YEARS)

215 DALSTON LANE - - LONDON, E.8

Nothing *"As good as really"* **FREE**
Else!

than the
Blade you
have been
looking
for



3 doz. Blades
with each
Gross
ordered.

"Good Blades can be" 8/- Per Gross
FREE TESTING SAMPLE UPON REQUEST. POST PAID.

ORDER NOW—IT PAYS BEST—GIVE "AMO" A TEST
L. FRANKENBERG, 125 Houndsditch LONDON, E.1

ESTD. 15 YEARS - - - - - TEL. AVENUE 8846

Demuth's Elegant Preparations



ARE UNIQUE IN THEIR CLASS.

Frozoclone

REGD.

The Original Solid Eau de Cologne.

Ideal for travelling and in the sick room.

IN GREEN GLASS BOTTLES REGD.

Two Sizes : 1s. 10d. and 3s. 6d. P.A.T.A.

Per doz. 16/- Per doz. 32/-

SOLID LAVENDER WATER

A new Production and a worthy Companion to Frozoclone.
IN WEDGWOOD BLUE, FROSTED BOTTLES.

Sizes and Prices as Frozoclone.

HARMOZAN BATH SQUARES

A presentation of Pine Needle Extract in an elegant form, for Home Treatment

Two Sizes : 2/- and 3s. 9d. P.A.T.A.

Per doz. 16/- Per doz. 30/-

CARNATE

The Elegant Nail Polish, waterproof.

IN WHITE PORCELAIN POTS.

1s. 9d. P.A.T.A.

Per doz. 15/-

ANALAX

The Ideal Fruity Laxative in Pastille form.

Palatable. Efficient. Reliable.

2s. 3d. P.A.T.A.

Per doz. 21/- (stamped).

Export 15/- per doz. (unstamped).

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Demuth's Castor Oil Powder.

P.A.T.A.

All other Medicinal Oils in Powder form.

MUTHOL

The Original Paraffinum Liquid B.P. in solid form. In all flavours.

P.A.T.A.

IN REPUTED 1-LB. JARS.

R. Demuth's Laboratories

68 Salusbury Rd. & Montrose Avenue, N.W.6

BRITISH? OF COURSE!

Look at the handles of the toothbrushes you sell. From October 13th onwards it will be illegal to sell any toothbrush of foreign manufacture that does not bear in plain figures the name of the country of origin.

Halex Toothbrushes are blatantly British. Their firm tenacious bristles remain on duty long after others from foreign lands have become soft and flabby. Write for the famous Introductory Parcel and see for yourself at small cost.

THE PRICE OF THE PARCEL!
40/- is the outlay. £3 6s. is the return.
60% profit!

The parcel contains:

The handsome glass-fronted display case, containing 1 doz. Halex brushes — 2 each of six patterns.

Six handy boxes of half-doz. Halex brushes in six different patterns, making 4 doz. in all.

A striking transparency and a show-card for window display.



Order it from your Wholesaler to-day.

PUT THE RED AND BLACK HALEX SHOWCASE ON YOUR COUNTER

THE BRITISH XYLONITE CO. LTD., HALE END, E.4

Archimedes jumped from his bath one day—

And shouted "Eureka, I have it!"
The event that brings joy
to the bathroom to-day
is the Daymark shaving habit.

Myatt Blades have jumped, too, right into popularity. Quality, the right price, and the unique Daymarking idea have captured and held public favour. Have you discovered how well they sell? Send an order to your wholesaler to-day, with a request for display matter.

NOW READY. The Myatt Xmas Gift Box is an Annual favourite. Contains 20 blades and sells at 5s. Do not fail to profit by the Xmas demand, include a few boxes in your order.

MADE IN ENGLAND.



Discoveries—
Ancient and
Modern....3

5 Blades 1/3
LESS 33 1/3%
SHOWING A PROFIT OF
50% ON COST

MYATT

PATENT DAYMARK

Blades

Trade
Mark

For Gillette type Razors only
W. J. MYATT & CO., LTD., Argent Works, BIRMINGHAM.
London Showrooms: 94, HATTON GARDEN, E.C.1.

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—
75 FARRINGDON ROAD, E.C.1.



A
**KEEN
BLADE**
AT A
**KEEN
PRICE**

The Blade that SELLS as it SHAVES—
"LIKE GREASED LIGHTNING!"

Obtainable from all Leading Wholesalers.
Inquiries from Genuine Wholesalers only are Invited.

Dept. C.D. "Wanie" Distributors:
c/o ROEBUCK'S ADVERTISING SERVICE
Salisbury Square House, Salisbury Sq., Fleet St., London, E.C.4

THE PHOTOGRAPHIC SUCCESS OF 1928

COLOURED ENLARGEMENTS

FROM AMATEURS' NEGATIVES.

Post
Cards **1/6**

$\frac{1}{2}$ Plate
 $6\frac{1}{2} \times 4\frac{1}{2}$ **2/-**

$\frac{1}{1}$
 $8\frac{1}{2} \times 6\frac{1}{2}$ **3/-**



Trade Discount, 33 $\frac{1}{3}$.

SPECIAL OFFER TO CHEMISTS.


To every chemist sending an opening order for coloured enlargements, value not less than 3/-, we will **SUPPLY FREE** the showcard reproduced below, exhibiting three coloured enlargements.

COLOURED ENLARGEMENTS

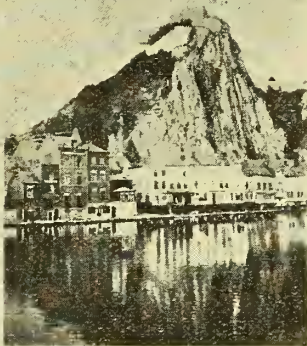
BEAUTIFUL PICTURES
SUCH AS THESE
CAN BE MADE BY US
FROM YOUR SNAPSHOTS

THIS SIZE 2/-
(An extra charge is made for groups containing more than two figures)



THIS SIZE 1/6
(An extra charge is made for groups containing more than two figures)



THIS SIZE 3/-
(An extra charge is made for groups containing more than two figures)

EACH ENLARGEMENT SUPPLIED IN ARTISTIC FOLDER MOUNT

**For Free
Show-
card**

Please fill
this in and
enclose
with order

Name

.....

Address

.....

.....

N.B.—
Only one
card can
be supplied
FREE.
Additional
cards
4/- each.

SIZE OF CARD WITH THREE COLOURED ENLARGEMENTS, 22" \times 14 $\frac{1}{2}$ ".

These enlargements have only been introduced in a few districts. You may be the first chemist to handle them in your own. From now until Christmas is the best time for pushing enlargements. Enlargement selling is a profitable business requiring no stock or outlay.

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Crown Street, LEEDS

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		0	3	2	
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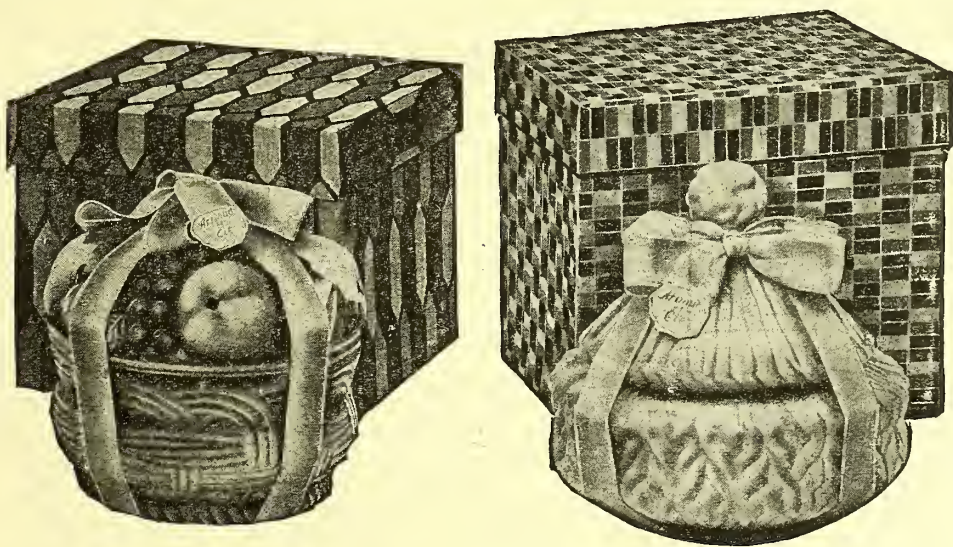
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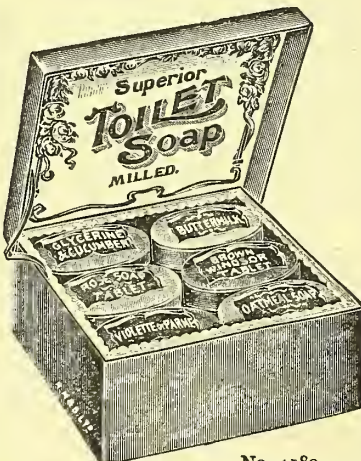
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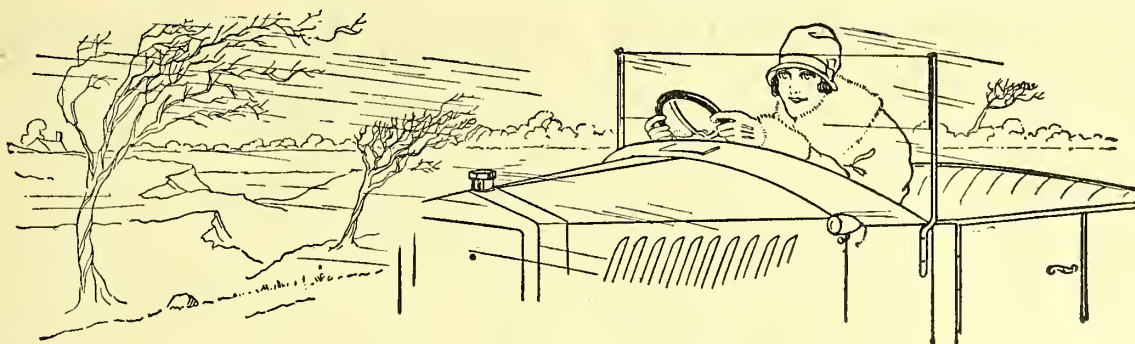
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"C. & D. Diary," 1929

"Known, Admitted and Approved" Remedies

The publication of *The Chemist and Druggist Diary*, 1929, which will take place in December, affords a unique opportunity of registering formulas for "known, admitted and approved" remedies, which can then be sold by chemists free of medicine-stamp duty, provided the appropriate reference to this standard work is given on the label of the preparation. It is an exceptional opportunity for chemists who require to make revisions rendered necessary by changes in poison law or developments in pharmacy. It is necessary that formulas, either new or modified, with the title under which the article is to be sold, should be submitted not later than October 15 for inclusion in the *Diary*. In view of the large number of formulas received and of the fact that each year many chemists overlook the date fixed, we desire to point out that part of the *Diary* goes to press a few days after. Consequently we cannot publish any formulas received after the date mentioned. Formulas, which must be written on one side of the paper only, should be addressed to the Editor, C. & D., 42 Cannon Street, London, E.C.4.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Safeguarding of Key Industries

Representations have been made to the Board of Trade under Section 10 (5) of the Finance Act, 1926, regarding dicyandiamide. Any communications with respect to these representations should be addressed to the Principal Assistant Secretary, Industries and Manufactures Department, Board of Trade, Great George Street, London, S.W.1, within one month from the date of this notice.

Birmingham

Many fine specimens of photographic art were on view at the exhibition of modern portraiture at the Chamber of Commerce Buildings, where the fourth annual exhibition organised by the Birmingham and District Professional Photographers' Association in conjunction with Amalgamated Photographic Manufacturers, Ltd., was held.

There was a good attendance of members and friends at the recent lecture on "Everyday Emergencies which Affect the Chemist," given by Dr. C. F. V. Smout to the St. John Ambulance Association, Pharmacy Division. Dr. Smout dealt with the treatment of various common ailments and prefaced his lecture with a few remarks on bacteriology and the treatment of wounds. Mrs. Lee, Corps Superintendent, who occupied the chair, thanked Dr. Smout for his interesting lecture.

Liverpool

The first dance of the season held by the Liverpool Pharmacy Club at St. Margaret's Hall attracted a numerous gathering, and was much enjoyed.

Members and friends of the Liverpool Chemists' Association are reminded that the annual smoking concert will be held at the Midland Adelphi Hotel on October 31. The proceeds are in aid of the Benevolent Fund.

The seventy-eighth annual report of the Liverpool Chemists' Association and Liverpool and District Branch of the Pharmaceutical Society gives an account of the activities of the members during that session. Membership has increased, and the cash in bank to the credit of the Association amounts to £69 16s. 1d. The balance-sheet of the branch of the Society shows a credit balance of £5 3s. 9d. A résumé of the work of the Merseyside Branch of the League of Ex-Service Pharmacists and the Liverpool and District Pharmacists' Golfing Society is included. A smoking concert on behalf of the Society's Benevolent Fund raised £125.

Miscellaneous

BURGLARY.—The premises of Mr. S. A. Sheard, chemist and druggist, James Street, Harrogate, were broken into on October 3 and a sum of money was stolen.

POISONING.—At an inquest at Blackburn, on October 8, on the body of Dr. H. Levy, a verdict of "Death from hydrocyanic acid poisoning and suicide while of unsound mind" was returned.

RATING RELIEF.—The Ministry of Health desire to remind manufacturers and other persons occupying industrial premises that all claims for inclusion of properties in the lists to be prepared under the Rating and Valuation (Apportionment) Act, 1928, with a view to rate relief, must be submitted to the Rating Authorities before Tuesday, October 15.

WINDOW-DRESSING AWARD.—At a window-dressing competition held at Washington, co. Durham, recently, the second prize in the class open to all trades was awarded to Mr. H. Daley, chemist and druggist.—Mr. S. Armitage, chemist and druggist, Dewsbury, was one of the prize winners in a window display competition organised in connection with the recent shopping week.

FIRE.—An outbreak of fire occurred on September 22 in a store room at the pharmacy of Mr. T. W. Srigley, chemist and druggist, 48 Newland Street West, Lincoln. The damage was not extensive.—There was a slight outbreak of fire on October 10 at the premises of Howards &

Sons, Ltd., Ilford. The damage was practically confined to the roof of one section of a department, and interference with normal business is likely to be negligible.

IN THE COURTS.—At Southend-on-Sea Police Court, on October 3, Henry Ford was sent for trial on a charge of breaking into the premises of Mr. C. P. Venables, chemist and druggist, Canvey Island, and stealing a quantity of goods.—At the South-Western Police Court, London, on October 4, George J. Smith (54), Albert Smith (20), carman, and John A. Morris (16), labourer, were committed for trial on charges connected with the loss of 42 oz. of cocaine hydrochloride (*C. & D.*, October 6, p. 422).—At Tower Bridge Police Court, London, on October 8, Charles Duller, described as a night watchman, employed by Boots, Ltd., Cornwall Road, S.E., who was charged with stealing a quantity of small articles worth 21s., was bound over and placed on probation for twelve months.

Scottish News

Brevities

Mr. Ian M. Mackenzie has opened a pharmacy at 560 Holburn Street, Aberdeen.

Among the successful candidates at the recent supplemental examination of the Spectacle Makers' Company, held at the Royal Technical College, Glasgow, was Mr. Peter Fenton, Kirkcaldy.

Mr. T. Chapman, chemist and druggist, son of the late Mr. James Chapman, chemist, Troon, has passed the final examination for the degree of M.B., Ch.B., at Glasgow University. Dr. Chapman has had a distinguished record as a student.

At a recently-held meeting of Dundee Town Council an offer by Mr. Alexander S. Troup, chemist and druggist, Monifieth, for the supply of drugs to Ashludie Hospital was accepted, as also was an offer by Messrs. Davidson and Gray, Nethergate, for the supply of drugs to King's Cross Hospital.

The Dundee "Evening Telegraph and Post," on October 3, had an article inspired by the diamond jubilee of the passing of the Pharmacy Act. The occasion is taken advantage of to give a brief outline of the evolution of the chemist's shop in Dundee since 1868, and the facts have been given to the newspaper by Mr. John Doig, of Wm. Doig & Son, High Street, whose father was in business before the Act was passed. Comments on the decline of dispensing and the increase in side lines are numerous.

Glasgow

Messrs. Ivie Hair & Co., 23 Scott Street, Glasgow, have made application for a licence for the sale of poisonous substances.

A quantity of iodine was swallowed in mistake for syrup of figs recently by Susan Machrie or Adamson, 9 Argyle Street, Maryhill, Glasgow. On discovering her error she took an emetic and sent for the police, who had her removed to the Western Infirmary.

At the recent final examination for the degree of B.Sc. (Pharmacy) of Glasgow University, the following students of the School of Pharmacy, Royal Technical College, Glasgow, were successful:—Edward Arthur, Ph.C., Edith Eliza Jones, Ph.C., Andrew James Thorburn, chemist and druggist.

The present committee of management (which will be appointed yearly) of the Glasgow Refraction Hospital is as follows:—Mr. R. Dickson, chemist and druggist, chairman; Mr. R. T. Poole, vice-chairman; Mr. R. C. Buchanan, B.Sc., Glasgow, technical secretary; Mr. James Crombie, Ph.C., Glasgow, hon. pharmacist; Mr. J. Abbott, chemist and druggist, Glasgow; Mr. J. A. Adams, Edinburgh; Mr. W. T. Baird, Glasgow; Mr. John Chalmers; Mr. E. L. Cooksey, Edinburgh; Mr. W. Devine, Glasgow; Mr. W. L. Reid, St. Andrews; Mr. R. Urquhart, chemist and druggist, Mauchline; and Mr. T. J. H. Young, Airdrie. The hon. secretary and treasurer is Mr. W. M. Kesson, C.A., 3 Blythswood Square, Glasgow.

Irish News

Dublin School of Pharmacy

The new School of Pharmacy recently established by the Pharmaceutical Society of Ireland was formally opened at 67 Lower Mount Street, Dublin, on October 3. In the absence of Mr. F. J. Fitzpatrick (president), a short address was delivered by the vice-President, Mr. D. J. Nugent. Mr. Nugent said that pharmacy was one of the most important subjects for the Pharmaceutical Licence Examination. By the opening of the School of Pharmacy students would receive benefits which had never before been open to them in the Free State. Great credit was due to Mr. John Smith, with whom the idea of the school originated. The president had never ceased his efforts until the School was an accomplished fact. In his (Mr. Nugent) opinion, one of the most important things the Council of the Society had done was the establishment of the School. The Council and the students were fortunate in having as lecturer, Mr. Thomas J. Smith, who was a gold medallist of the Society. He wished the School and the students present every success. Mr. T. J. Smith thanked Mr. Nugent for his kind remarks. He then proceeded to deliver his lecture to the students.

Belfast

At Belfast Corporation Police Committee an application was submitted from Mr. Wm. Conn, secretary of Messrs. John Robson, Ltd., Cattle Salesmen, for licence under the Poisons and Pharmacy Acts to sell sheep dip in connection with agriculture. The matter was referred to the Executive Officer for report, and to advise the other authorities interested that the application will be considered by this committee at a future meeting.

The new Early Closing Order for pharmaceutical chemists and registered druggists in Belfast is now in force. On October 5 the Ulster Retail Drug Trade Association issued an advertisement drawing the attention of the public to the new hours of closing—8 p.m. every day except Saturday, instead of 9 p.m. as hitherto, with 1.30 p.m. closing on Wednesday or Saturday for half-holiday, as the case may be. The Order does not prevent the sale of medicines at any time. Although the plebiscite of the trade showed a majority for the Order, there is a substantial minority that claims that it has been made largely in the interests of the one-man traders, and that it will operate hardly, particularly on those who have large staffs, more especially in the down-town shops. The enforcement of the Order is a matter for the local authorities, who have Shop Hours' inspectors constantly on the move seeing that the terms of this and similar Acts are observed.

Mr. Herbert McRoberts, the new member of the Pharmaceutical Council of Northern Ireland, representing the pharmacist section, in succession to Mr. J. C. Culbert, is one of the best known of the younger generation of the trade in Belfast. He served his apprenticeship with A. Andrews & Co., Bridge Street, Banbridge, and was subsequently for a time with Thos. McMullan & Co., Ltd., Belfast. He opened a business with his brother at 71 Ormeau Road, Belfast, and later a branch in Shaftesbury Square. Mr. McRoberts is a familiar figure in sporting circles. He was captain of the Ulster golf team against the Free State in the British Drug Houses Cup Competition, and he is also a leading member of the Belfast Bowling Club.



MR. HERBERT MCROBERTS.

Retail Pharmacists' Union

MEETINGS of the Executive of the Retail Pharmacists' Union and Chemists' Defence Association were held at 4-5 Queen Square, London, W.C.1, on September 25, Mr. J. E. French in the chair.

MARKETING AND TRADE PRICES COMMITTEE

The Marketing and Trade Prices Committee reported that they had been in communication with the Reliance Rubber Co. regarding that company's proposal to open a series of retail shops. It appeared that the company were of opinion that these shops would create a demand for their goods and result in an increased sale of those goods through chemists. The Committee were unable to accept this view of the matter.

The Committee also reported that the arrangements with various firms regarding the expiry dates of foods and other preparations were well in hand, and that it would be possible shortly to make an announcement indicating the firms and preparations included in the arrangement. The Committee asked for the authority of the Executive to continue the "Aspro" campaign. A letter had been received from Genatosan, Ltd., stating that they would give an assurance that the sales of Genasprin should be confined solely to chemists and would not be supplied stamped for sale by grocers and other traders.

GENERAL PURPOSES COMMITTEE

The General Purposes Committee reported that they had received a suggestion that the capacity of ointment boxes, which is standardised at the present time on the basis of a water capacity, should be changed, and a fat capacity adopted. It was considered, however, that this suggestion would not obviate the necessity of weighing the requisite quantity of ointment so far as dispensing prescriptions was concerned, and that in other respects it would still be open to question from the point of view of a rough standard of accuracy. The Committee, therefore, recommended that no action be taken. In regard to the capacity of poison bottles, the Committee reported that they had been in communication with various manufacturers, and that it appeared necessary for chemists to specify machine-made bottles if they desired to get bottles as nearly accurate as possible.

CENTRAL NATIONAL HEALTH INSURANCE COMMITTEE

The Central N.H.I. Committee reported that an epitome of the replies received from Pharmaceutical Committees in regard to the National Formulary had been considered, and the suggestions for improvement or correction received from thirty-two Pharmaceutical Committees had been accepted. The Committee's representatives were instructed to submit these criticisms to the British Medical Association's Formulary Committee.

A communication from the Ministry of Health regarding border-line articles ordered on N.H.I. prescriptions had been considered, and arrangements had been made to meet the British Medical Association and afterwards to have a joint conference between the Ministry, the B.M.A. and the R.P.U.

The Committee had considered the present arrangements for investigating extravagant prescribing. It was decided to arrange with the Ministry of Health that greater attention should be given to special investigations regarding frequency of prescribing.

Chemists' Defence Association Matters

The secretary reported that one claim in respect of damage caused to a motor-cycle by a member's cycling errand-boy had been settled by payment of £2 8s. 6d. Sixteen new cases had arisen, of which five had been settled as follows:—(1) Tablets handed out to wrong customer, £5; (2) damage caused to customer's umbrella, 9s 6d.; (3) damage to clothing by acid, £2 0s. 11d.; (4) spectacles broken by falling blind, 12s. 6d.; (5) injury caused to customer's arm by butter of antimony accidentally spilt, £10.

The secretary reported that a member had been fined £2 under the Sale of Food and Drugs Acts in respect of a sale of calamine ointment. A member and manageress had been fined £5 each, plus £2 2s. costs,

under the Poisons and Pharmacy Act, for selling ammonia not labelled in accordance with the regulations. A member's assistant had been fined £5, and the member £5, with £4 19s. costs, for selling tr. opii upon a false prescription and not keeping the tr. opii in a locked receptacle. The appeal against the conviction and fine of £40 against a member in Liverpool had been allowed and the conviction quashed, with costs.

Masonic News

Alchemy (Pharmacists) R.A. Chapter, 3950

THE Alchemy R.A. Chapter Installation meeting was held at the Masonic Hall, Severn Street, Birmingham, on October 4, Ex. Comp. W. F. Edwards being installed as First Principal, Ex. Comp. W. E. Hipkiss as Second Principal, and Ex. Comp. W. S. Burton as Third Principal. There was a good attendance, including two Grand Chapter Officers, and sympathetic reference was made to the passing of the late Prov. G. Superintendent Ex. Comp. Rev. Canon C. W. Barnard, P.G.S.N.Eng., who was one of the founders of the Alchemy Chapter. The Principal invested the following officers for the coming year:—S.E., Comp. Sydney Harris; S.N., Comp. W. A. Bales; Treas., Ex. Comp. F. C. H. Foster, P.P.G.D.C.; P.S., Comp. R. E. Howard; 1st Ass. Soj., Comp. H. H. Sewell; 2nd Ass. Soj., Comp. H. G. Wright; D.C., Ex. Comp. J. Robinson; charity steward, Ex. Comp. Maurice Smith, P.G. Treas.; organist, Comp. F. J. Gill; stewards, Comps. J. W. Burnside, R. Record, N. Harris, W. Beck, H. E. Riley, W. W. Adams, and A. S. Price. The contents of the charity box was donated to the Pharmaceutical Society's Benevolent Fund.

Alchemy (Pharmacists) Lodge, 3950

THE Alchemy Lodge held its annual Installation ceremony at the New Masonic Peace Memorial Temple, Broad Street, Birmingham, on October 3, when Bro. Ernest W. Saunders (formerly of Birmingham but now of Leeds) was installed as the ninth Worshipful Master of this very progressive Lodge. The R.W. Prov. Grand Master of Warwickshire, Wor. Bro. Col. W. F. Wyley, D.L., J.P., P.G.D., the Assistant Prov. G. Master, Wor. Bro. J. S. Pritchett, B.C.L., P.G.D., Wor. Bro. B. Silverston, P.G.A.D.C., and other distinguished visitors were present, many of these being old Masonic friends of the new Worshipful Master. The ceremony of Installation was admirably performed by the retiring W.M., Wor. Bro. R. E. Howard (Birmingham), who was the recipient of the congratulations of the three above-mentioned Grand Lodge officers. The Assistant Prov. G. Master subsequently referred to the progress made by this comparatively young Lodge in having already formed a Royal Arch Chapter and a daughter Lodge (Connaught 4802), and paid tributes to Wor. Bro. F. J. Gibson, charity steward, Wor. Bro. W. E. Hipkiss, temple steward, and Wor. Bro. Maurice Smith, treasurer, on the exceptional statements of the charity fund, temple fund and Lodge finances respectively. The toasts of "The King" and of "The M. Wor. Gr. Master" was proposed by the Wor. Master; "Grand Lodge" by Wor. Bro. C. E. Ison (Atherstone); "R.W. Prov. G. Master" by Wor. Bro. Lester (Nuneaton); "Prov. G. Lodge of Warwickshire" by Bro. F. J. Gill (Birmingham); "The Wor. Master" by Bro. C. L. Moores (Birmingham); "The Visitors" by Wor. Bro. Maurice Smith; "The Installing Master" by Wor. Bro. C. B. Baker (Nuneaton); "The Past Masters and Officers" by Wor. Bro. Sydney Harris (Birmingham). The officers invested by the Wor. Master (Bro. E. W. Saunders) were as follows:—I.P.M., Wor. Bro. R. E. Howard; S.W., Bro. C. L. Moores; J.W., Bro. F. J. Gill; chaplain, Bro. W. A. Shaw; treasurer, Wor. Bro. Maurice Smith, P.P.G.W.; secretary, Wor. Bro. F. C. H. Foster, P.P.G.Reg.; D.C., Wor. Bro. W. E. Hipkiss; S.D., Bro. H. M. Tranmer; J.D., Bro. J. D. Murdoch; A.D.C., Wor. Bro. C. B. Baker; charity steward, Wor. Bro. F. J. Gibson, P.P.G.W.; assistant secretary, Bro. W. A. Wales; I.G., Bro. R. T. Spargo; stewards, Bros. W. Beck, L. Ingram, W. W. Adams, C. Tidman, G. R. Williamson, and A. Hunt.

Legal Reports

Corn Cure Case.—At Cookstown Quarter Sessions, on October 6, before his Honour Judge Linehan, K.C., Wynter Brothers & Co., Ltd., manufacturing chemists, Bradford, sued Mr. Samuel McKinney, Ph.C., Cookstown, for £21 7s. 6d. due for goods sold and delivered. It was explained that the facts in dispute were that the plaintiffs' traveller took an order from Mr. McKinney for seven and a half gross of certain corn cures. This order was signed by the defendant, who now stated he only ordered seven and a half dozen. Charles Perry, traveller for Messrs. Wynter, said Mr. McKinney, in October 1927, agreed to give him an order for corn cures. He also gave him an order form, which witness filled in and Mr. McKinney signed. It had been sworn in affidavit that witness wrote the order in a notebook, but that was not so. There were a number of other chemists in the North of Ireland who refused to take orders because they alleged they got more than they ordered. Some customers, he added, had been staggered when they had been shown their own signatures on the order forms. Cross-examined, witness said he had no duplicate of the order. He had only recently kept any duplicate book. The order forms were sent immediately to his employers. When that order was made out Mr. McKinney signed his name to that order, and also the total quantity, seven and a half gross. Witness stated that he jotted down all the orders in a notebook, which was destroyed as soon as it was used up. The defendant stated that he had been in business in Cookstown for fifty years. The traveller offered to appoint witness the local agent. He agreed to take a small quantity—seven and a half dozen—and said he would get more if the demand was good. Mr. Perry wrote the order in a notebook, and witness signed it. The traveller then asked for a billhead, and witness gave him one, which he took away blank. In due course the order came, and when witness saw from the invoice that there were seven and a half gross of the goods, he returned it to the company. The order form was then handed to witness in the box, and he positively denied that he had signed it. His Honour then asked for a specimen of Mr. McKinney's handwriting, and he wrote his signature and the words "seven and a half gross" on a slip of paper. Mr. S. S. Badger, J.P., Magherafelt, said he was a chemist, and remembered the traveller calling on him in October 1927. Witness ordered four and three-quarter dozen of the goods, and when they came along there were four and three-quarter gross. He immediately returned them to the company. The word gross was never mentioned in the transaction. A specimen of this witness's signature was also handed to the judge. He admitted that the signature on the order form (produced) was like his, and he would not deny having written it, but he strongly denied that he had written the words "four and three-quarter gross." His Honour, giving judgment, said that, in his opinion, the word "gross" as written in the specimen by the defendant and also by the witness was identical to that written on the order forms, and he would therefore give a decree for the full amount, with £5 expenses.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

K. E. REED, LTD. (P.C.).—Capital £200. Objects: To carry on the business of chemists, druggists, dry-salters, oil and colourmen, etc. The subscribers are: E. A. Froud and H. E. Wiltshire. Secretary: H. E. Wiltshire. R.O.: 35 Craven Street, W.C.2.

LIVERPOOL SURGICAL CO., LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of dealers in and manufacturers of surgical, medical, optical and scientific instruments, drugs, medicaments, etc. The subscribers are: Mrs. A. D. Ross and L. Jennings. R.O.: 41 Hardman Street, Liverpool.

RHEUMOGEN, LTD. (P.C.).—Capital £250. Objects: To acquire the business of proprietors of Rheumogen as now carried on by Laird & Son, 40 Queensferry Street,

Edinburgh, and elsewhere. The directors are: K. J. C. McLeeman, chemist and druggist, and A. H. D. A. Smith. R.O.: 13 Rutland Square, Edinburgh.

MATE-VITA, LTD. (P.C.).—Capital £750. Objects: To carry on the business of manufacturers, importers and exporters of and dealers in Mate-Vita tea and any other patent or proprietary foods, medicines, drugs, chemicals, etc. The subscribers are: H. M. Cordery and G. Rowson. Solicitors: Pakeman, Son & Read, 11 Ironmonger Lane, E.C.2.

SMITH'S CARDIFF (1928), LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of Smith's (Cardiff), Ltd., and to carry on the business of manufacturers of and dealers in aerated and mineral waters, carbonic acid gas, glucose, wines, spirits, beers, porter, cider, fruit wines, cordials, syrups, vinegar and acetic acid, etc. Solicitor: C. J. Hardwicke, 109 Queen Street, Cardiff.

THOMPSON & NORRIS (EASTERN), LTD. (P.C.).—Capital £20,000 in 10,000 7 per cent. cumulative preference and 10,000 ordinary shares of £1 each. Objects: To carry on the business of manufacturers of solid and corrugated fibre cases and corrugated products of all kinds, etc. The directors are:—J. N. Beach, S. O. Chivers, and H. Minch, The Sheiling, Parkside Drive, Watford, Herts.

WILLIAM PATERSON & SONS (ABERDEEN), LTD. (P.C.).—Capital £45,000. Objects: To acquire the business now carried on at Spring Garden, Aberdeen, as William Paterson & Sons, wholesale druggists and manufacturing chemists, etc. The directors are: M. C. Ross, wholesale manufacturing chemist, W. G. Brown, commercial traveller, and J. Forsyth, cashier. R.O.: 59 Spring Garden, Aberdeen.

BENGER'S FOOD, LTD. have declared an interim dividend on the £1 ordinary shares at the rate of 9d. per share, free of tax, for the six months ended September 30. Dividend payable November 1.

Voluntary Liquidation

Bryte, Ltd., manufacturing chemists, 154 King's Cross Road, London, W.C.1.—In pursuance of Section 188 of the Companies (Consolidation) Act, 1908, a meeting of the creditors was held on October 8 at the premises of the company, when the chair was taken by Mr. F. W. Inns, the liquidator. The chairman stated that the facts he had to disclose were of a very disappointing character, and that the outlook for the creditors was practically hopeless. The liabilities amounted to about £854, of which £560 was due to the trade and £294 to cash creditors, while there were debentures for a further £250. In addition Mr. T. Hadley, who was a director, and Stewart & Anderson were creditors for £150 and £100 respectively. The assets comprised stock estimated at £25; plant, £4; fixtures and fittings, £13 19s.; and book debts, £130; making a total of £173. It was stated that the company was incorporated in 1927 with a capital of £500 in shares of 1s. denomination, and the issued capital was only £87 13s. For sixteen months the turnover had been just under £2,000, and the expenses had been altogether too high to enable a profit to be made. The company manufactured various lines, and it rather specialised on a first-aid set and eye black sets, which were sold at attractive prices, but the company had not had sufficient in the way of liquid resources to exploit these manufactures to the full. Asked as to the gross profit which had been earned, it was stated that the company reckoned to make 50 per cent. on the selling cost. One of the directors who was present said that the wages that had been paid were undoubtedly out of proportion to the business done. The meeting, which was of a very informal character, on hearing that there would probably not be sufficient to pay out the debenture holders, decided to confirm the appointment of Mr. Inns as liquidator. The following are creditors: Rolley, Robert, £25; Clark, J., & Son, £23; Dalmás, A., de St., & Co., Ltd., £48; Pullivant, F. T., £80; Southall Bros. & Barclay, Ltd., £137; Caines, W. S., £31; Robinson, £48; Taylor, A. F., £120; bankers, £196.

Pharmaceutical Society of Great Britain

Examination Results

THE following are the results of the Pharmaceutical Society's Examinations held in London this month:—

	No.	PRELIMINARY SCIENTIFIC				CHEMIST AND DRUGGIST QUALIFYING			
		Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for whole examination	6	1	4	—	1	—	1	—	—
Entered for C. and D., and referred subject in Prelim. Sc.	21	2	—	3	16	3	5	6	2
Entered for Prelim. Sc. only	186	17	77	40	52	—	—	—	—
Referred subject in Prelim. Sc. only	126	3	—	34	89	—	—	—	—
Entered for C. and D. only	194	—	—	—	—	10	73	64	47
Referred subject in C. and D.	143	—	—	—	—	5	—	44	94
	676	23	81	77	158	18	79	114	143

Referred in one subject:—Botany, 37; chemistry, 29; physics, 11; pharmacognosy, 13; pharmacy, 77; pharmaceutical chemistry, 23; forensic pharmacy, 1; total, 191.

PRELIMINARY SCIENTIFIC AND CHEMIST AND DRUGGIST QUALIFYING EXAMINATIONS

The following having satisfied the examiners have been registered as chemists and druggists:—

Ashplant, Millicent A. E., Northam
Thomas, J., Wallasey

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The following having satisfied the examiners have been registered as chemists and druggists:—

Acraman, A. L., Cardiff
Aldous, A., Ely
Anderton, J. F., Oldham
Augustin, R., Canton
Banks, J. S., Manchester
Barnes, B. C., Accrington
Bate, F. H., Colchester
Battersby, Hilda, Pendleton
Beed, E. T., Cardiff
Bell, Catherine B., Birmingham
Berry, R., Billinge
Best, N., Leeds
Bingham, R. W., Distington
Black, L. A., Chatham
Blanchard, Margery B. A., Leominster
Bone, A. W., Bath
Boucher, J. F., Bristol
Boyce, Edna M., Saltburn
Braby, R. T., Redhill
Bristow, F. G., Dalston
Brocksom, H. E., Gainsborough
Brooks, A. H., Gillingham
Brown, Lillie M. B., Birmingham
Brown, Marion B., King Williamstown
Brown, N. D., Chesham
Bullock, T. L., East Ham
Burbank, Dorothy M., Oxford
Burrows, W., Beeston
Butler, J. R., Reading
Cadge, R. B., Tottenham
Callam, Ethel M., East Dulwich
Carrington, E. A., Bakenwell
Carthy, C. W., Pembroke Dock
Cheng, Yik Kwan, Hong Kong
Clark, W. S., Elland
Clarke, N. H., Lewisham
Colley, O. J., Budleigh Salterton
Cross, L. G., Teignmouth
Davidson, Yetta, Stepney
Davies, C. E., Llanelly
Davis, R. J., Chesham
Dee, F. E., Upper Norwood
Eason, Edith M. R., Cardiff
Elford, T. M. P., Plymouth
Elliott, A., Fulham
Evans, E. G., Garnant
Evans, R. S., Ciffig
Evans, S. A., Leytonstone
Fisher, Ruby E., Bourne-mouth
Flynn, F. W., Farnworth
Fogg, H., Sherwood
Frost, A., Wolverhampton
Frost, E. W., Fakenham
Fuller, M. S., Johannesburg

Galliver, W. A., Port Talbot
Gardner, P. L., Southampton
Graham, J. W., Maryport
Green, S., West Bridgford
Gregory, A., Sheffield
Grolman, M., Johannesburg
Guymer, R. H., Lincoln
Hall, F. C., Leeds
Hall, L. W., Clerkenwell
Hall, R. S., Nottingham
Hayden, W. H., Banbury
Heafield, P. G., Woodville
Holgate, J. P., Halton
Holland, E. J., Gt. Crosby
Hosking, G. E., Barry Dock
Hucks, Agnes K. J., Regent's Park
Hughes, D. M., Portmadoc
Hughes, J. E., Llandudno
Hughes, J. B., Shotton
Hunnings, T. M., Ponders End
Hunt, Grace V., Blackheath
James, J. R., Porth
Johnson, A. H., Wolverhampton
Jones, Nancy G. B., Lewisham
Kennedy, E. M. V., Southport
Kent, J. H., Boscombe
King, T., Crewe
Lanceley, G., Birkenhead
Leeward, J. S., Bethnal Green
Lincoln, A. H. J., Acocks Green
Littlewood, S. D., Wavertree
McLaren, D. O., Stalybridge
Madon, K. J., Kilburn
Malk, S., Johannesburg
Manser, G. E., Oswestry
Marsh, W. H., Maidenhead
Mayhew, E. A., Ilfracombe
Melville, Eileen, Cardiff
Miller, Joan, Hyde Park
Mitchell, C., Birkenhead
Moore, R. E., Stockton
Morgan, R. H., Bargoed
Morgan, W. R., Swansea
Morrison, K., Glasgow
Mote, L. C., Harrogate
O'Shea, E. P., Colchester
Owen, G. W., Rugby
Owen-Jones, B. T., Port Elizabeth
Pacey, H. C., Chelsea
Parker, T. A., Grimsby
Parsons, Ethel I., Handsworth
Phillips, D. L., Aberdare
Phillips, R. B., Neath
Pollard, A. N., Stockport
Pollard, E., Rock Ferry
Powell, H. R., Rugby
Rance, W. T. S. L., Camberley
Randles, Nora G., Stockport
Ratcliffe, J. C., Blackburn
Rees, W. T., Swansea
Reichlin, L., Benoni
Richardson, K. J., York
Roberts, T. J., Connahs Quay
Rudd, W. H., Norwich
Sampson, A. P., N. Tawton
Schou, M. R. W., Boksburg
Shaw, F. B., Dodleston
Shaw, G. E., Maida Vale
Short, S., Sheffield
Smith, R. G., Liverpool
Southworth, R., Blackburn
Spencer, H. A., Oswaldtwistle
Stather, W. E., Sheffield
Sullivan, H. E., Tolworth
Tiley, W. T. J. B., Clapham
Trett, F. W., Bungay
Varley, P., Blackpool
Vaughan, D. C. B., Croydon
Watson, H., Harrogate
Whalley, Muriel H., Hyde
Whitaker, J. L., Wolverton
Williams, H. R., Cardiff
Winship, A. R., Bourne-mouth
Wiseman, Doris V., Birmingham
Wrigley, H. P., St. Annes-on-Sea
Wyle, R. I., Treorchy
Ziman, W., Clapton

Business Changes

THE CROSSPOOL PHARMACY, LTD., are opening a business at 17 Sandygate Road, Sheffield.

MR. J. H. BARKER, chemist and druggist, is opening a business at 135 Oakbrook Road, Sheffield.

BURNSIDE & Co., importers, 59 Mark Lane, E.C.3, have removed to 15, 17, 19A Wagner Street, Old Kent Road, London, S.E.15. Telephone: New Cross 0317.

THE business of the late Mr. C. E. Williams, chemist and druggist, 38 St. Peter's Road, Yarmouth, has been formed into a limited liability company under the style of Williams & Baxter, Ltd.

CHILEAN IODINE SALES.—The Chilean Treasury has concluded an agreement with the Association of Iodine Producers in Chile, as from June 30, 1929, by which future sales of iodine will be made exclusively under Chilean auspices.

Pharmaceutical Society of Ireland

Annual Meeting

THE fifty-third annual meeting of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on October 1, Mr. F. J. Fitzpatrick (president) in the chair. There were also present:—Mr. Denis J. Nugent (vice-president), Dr. J. A. Walsh, Sir Thomas Robinson, Messrs. Seumas Na Carra (J. J. R. Kerr), D. Warwick, M. V. Sargent, F. J. Robinson, M. J. Timoney, T. J. Smith, Wm. Jones, G. H. Batt, M. J. O'Callaghan, James Duggan, H. J. Sumner, Edgar B. Aplin, James Ryan, M. J. Mullan, Wm. H. Keogh, Thos. W. Campion, Patrick E. Kelly, Joseph Gorry, Thos. J. Doyle, Wm. Murphy, and J. J. Roche.

SCRUTINEERS' REPORT

The PRESIDENT read the report of the scrutineers of the ballot for the election of seven members on the Council (*C. & D.*, October 6, p. 422). He declared the first seven elected.

ANNUAL STATEMENT

The PRESIDENT said that this was an occasion for the members of the Society to do the talking, to examine the statistics and to ask questions. The president then read the following statement:—

At the annual meeting, October 1927, Messrs. P. J. Fielding and P. Kieran were elected members of the Council, and at the December meeting Mr. M. J. Kieran, R.D., was co-opted a member in place of Mr. Fleming, resigned. The co-option of a registered druggist was, he said, an arrangement made with the Legislative Subcommittee that at the first possible opportunity they would give the druggists proper representation.

STATISTICS

The Registers

	1927	1928
Pharmaceutical Chemists	1,391	1,413
Pharmaceutical Assistants (including 242 who have become Pharmaceutical Chemists)	343	365
Chemists and Druggists	72	34
Registered Druggists (including 78 who have qualified as Pharmaceutical Chemists)	701	752
	2,507	2,564

Subscribers

	1927	1928
Members	387	419
Associate Druggists	69	60
	456	479

Seventy-two new members were elected during the year and two Associate Druggists.

The deaths recorded included the following:—*Pharmaceutical Chemists*: James McCully Cherry, Edward Leybourne, Abraham Morris, Francis Michael McNulty, Daniel Joseph McGrath, Robert McCay, John McGrotty, William Daniel O'Regan, James Tate.

Registered Druggists: Robert N. Allen, John Watson.

EXAMINATIONS

Preliminary

	1927	1928
Candidates	175	266
Candidates rejected	83	132
Candidates passed	92	134
Candidates registered on Certificates from other Bodies	37	48
	129	182

During the past twelve months three candidates passed with honours: Patrick Keogh, 79 per cent.; Kieren Joseph Campbell, 71½ per cent.; Gerald P. Keane, 71 per cent.

Pharmaceutical Licence Examination

	1927	1928
Candidates	101	125
Candidates rejected	57	70
Candidates passed	44	55

During the past twelve months one candidate passed with honours: Michael Patrick McGoldrick, 222. *Maximum Marks*, 300. *Minimum* 165. Mr. McGoldrick was, the President said, a very successful candidate.

Pharmaceutical Assistant Examination

	1927	1928
Candidates	34	37
Candidates rejected	12	13
Candidates passed	22	24

Registered Druggist Examination

	1927	1928
Candidates	25	34
Candidates rejected	9	12
Candidates passed	16	22

EXAMINERS

The following changes took place in the Board of Examiners during the twelve months: Mr. George C. Hewson, M.P.S.I., was appointed botany and materia medica examiner in place of Mr. C. E. Digges, M.P.S.I., whose full term of office had expired, and Miss Mary Cotter, B.A., was elected as preliminary examiner in place of Mrs. Murphy O'Shea, resigned.

THE SCHOOLS

The Students attending the Society's Schools were as follows:

	1927	1928
Theoretical chemistry	53	42
Practical chemistry	45	40
Botany and materia medica	46	53
	144	135

PRIZES AWARDED

School of Chemistry.—Practical Chemistry, First prizes: Mr. A. A. Cullinane, 90 per cent.; Mr. P. J. Sheehan, 90 per cent.; Mr. A. G. Wilson, 80 per cent. *Second prizes*: Mr. J. A. Doyle, 80 per cent.; Mr. C. Dillane, 75 per cent.; Miss P. Dolan, 75 per cent. *Theoretical Chemistry.—First prizes*: Mr. J. A. Doyle, 85 per cent.; Mr. T. Stewart, 85 per cent. *Second prizes*: Mr. P. J. Sheehan, 75 per cent.; Mr. J. T. Leahy, 75 per cent.

School of Botany and Materia Medica.—First prizes: Mr. J. T. Leahy, 98 per cent.; Mr. Patrick Bowler, 75 per cent.; Miss M. Fuller, 75 per cent. *Second prizes*: Mr. M. Connell, 75 per cent.; Mr. A. A. Cullinane, 70 per cent.

THE SOCIETY

The PRESIDENT, referring to the decrease in the number of chemists and druggists from 72, the number given for 1927, to 34, the number given for 1928, explained that this did not mean that 38 died in one year. It was, he said, a question of purifying the register. They sent statutory letters throughout the country, and they found that only 34 of the original chemists and druggists were alive to-day. The membership of the Society was, he believed, at a very high point just now, notwithstanding the breaking away of the Northern members, who had a society of their own. The subscriptions in 1925 amounted to £516 12s., in 1926 to £593 5s., in 1927 to £658 17s., and in 1928 to £666 3s. They were in the fortunate position of having an excess of income over expenditure of £656. He thought all concerned could be congratulated on such good results. He called attention to the presence at their meeting of one of their North of Ireland Licentiates, Mr. Mullan, who gave a subscription of £5 5s. to the Benevolent Fund.

FINANCIAL STATEMENT

The VICE-PRESIDENT, in the absence of Dr. M. Ryan (treasurer), read a statement of accounts for the year ended August 31, 1928. The following is a comparison of the principal headings of income and expenditure as compared with the previous year:—

INCOME

	1927	1928
	£ s. d.	£ s. d.
Subscriptions:		
Members	545 9 0	563 17 0
Associates	81 18 0	70 16 0
Life Members	31 10 0	31 10 0
	£658 17 0	£666 3 0

	1927			1928		
	£	s.	d.	£	s.	d.
Examination fees	1,477	17	6	1,965	12	6
Less examiners' fees ..	393	4	6	526	1	0
	£1,084	13	0	£1,439	11	6
Rents and dividends ..	283	6	2	312	13	1
Advertisements and sundries	57	2	0	35	2	2
	£340	8	2	£347	15	3
Total income from all sources	£2,083	18	2	£2,453	9	9
EXPENDITURE						
	£	s.	d.	£	s.	d.
Salaries, wages and super-annuation allowance ..	437	3	0½	465	7	6
Journals, printing and stationery	475	2	9	492	16	6
Rent, rates, taxes and 'phone	70	6	3	70	19	4
Repairs, light and fuel ..	72	4	3	50	13	7
Law costs	518	8	3	354	7	5
Travelling expenses ..	107	13	7	120	13	9
Postage, drugs, interest, medals and sundries ..	187	1	6½	211	18	5
Depreciation	32	2	7	30	2	2
	£1,900	2	3	£1,796	18	8

being a decrease of £103 3s. 7d., as compared with the previous year. The Law Costs show a decrease of £164 0s. 10d., as compared with last year. The total debit, £354 7s. 5d., is made up as follows:—

Miscellaneous Law Costs in connection with sundry prosecutions, and Legislation Committee's Costs in connection with the Law Act	437	11	11
Less fines and costs recovered	83	4	6
	£354	7	5

The surplus income for the year amounts to £656 11s. 1d., which is an increase of £472 15s. 2d. on the 1927 figures. This is due principally to the increase in income from examination fees.

BALANCE SHEET

The total cash in hand and at Bank is £646 3s. 11½d., as compared with £447 19s. 6½d. on 1st September, 1927. Investments show an increase of £200 on the 1927 figure, being the cost of an additional £198 19s. Irish Free State National Loan. The amount held in trust for the schools is the same as last year, £199 4s. 6d. (nominal) Irish Free State National Loan. Stock and utensils and premises are brought into the balance sheet at the same figure as last year. From the library and fixtures and fittings, depreciation has been deducted at the same rate as heretofore. Sundry debtors total £8 11s. 8d., as compared with £28 3s. 9d. in 1927. Sundry creditors amount to £430 4s. 10d., as compared with £738 9s. 6d. last year. The figure of capital now stands at £6,265 16s. 10½d., the figure on 1st September, 1927, being £5,609 5s. 9½d.

The VICE-PRESIDENT said he thought the statement was very satisfactory. It showed an excess of income over expenditure of over £600, and it showed that pharmacists all over the Free State were coming to the Society's aid and joining it and helping it.

On the motion of Mr. WARWICK, seconded by the VICE-PRESIDENT, the financial statement was adopted.

DEVELOPMENTS OF THE SOCIETY

The PRESIDENT said that since their last meeting the Council had inaugurated a School of Pharmacy, a long-felt want; and from the inquiries that their Registrar had received, he believed that it would be a great success. They had been fortunate in securing as lecturer, Mr. Thomas Smith, gold medalist of the Society, under whose charge, he was sure, matters would be a success. (Applause.) They had also recently inaugurated a Benevolent Fund, and although they had been only a few months working at it—he had not been able to devote all the time that he would have liked to it—they had over £400 in hand. He believed that Mr. Hinchy, who had given a notice of motion, was ill.

THE PHARMACY BILL

Mr. JONES asked if the president could give any information about the new Bill.

The PRESIDENT said the Bill was now in rough draft,

and they expected that it would be introduced in the Dail in the coming session. They had received, he proceeded to say, a further cheque for £5 5s. for the Benevolent Fund from Mr. James Kerr. He thought it would be a good thing if the annual meeting could be made an avenue for subscriptions for the fund.

TRIBUTES TO THE PRESIDENT

Sir THOMAS ROBINSON, in proposing a vote of thanks to the president, said he would like to tell the members of the Society that they had never had a more indefatigable president than they now had. (Hear, hear.) He had long experience of public bodies, and he had never met anyone who gave himself more wholeheartedly to the work that he had taken in hand than Mr. Fitzpatrick. The work of the Society was extremely difficult, and during the last two years while the Pharmacy Bill was being prepared it required a great deal of ability and foresight and a great deal of toleration to carry it through to anything like the unanimous issue it had almost reached. In Mr. Fitzpatrick they had an exceptionally fine and hard-working president. It would be a pity if they separated without placing on record their deep thanks for and appreciation of the great work that he had done during the two years that he had been in office. He begged to propose a very warm vote of thanks to the president. (Applause.)

Mr. WM. JONES, in seconding, said Mr. Fitzpatrick was very near him, and was a very keen competitor. But there was one thing that he might say—that they never hit below the belt. They were as friendly that day as on the day that Mr. Fitzpatrick came into the district. It gave him very great pleasure to second Sir Thomas Robinson's proposal.

The PRESIDENT, in acknowledging the vote of thanks, said he was deeply grateful indeed for the kind words that had been spoken concerning him. He had only done his duty. When a man took on a task he should carry it out to the best of his ability; and that was all he had tried to do. He had been ably helped throughout the year by the Council. They had always pulled their full weight; they were all the best of comrades; and when they found a Council like that they had no difficulty in working. He had as well a good lieutenant on every occasion in Mr. Nugent. (Hear, hear.) It was team work; and it was the team that should get the credit and not he (the president). He was grateful to Mr. Jones for his remarks. He always tried not to hit below the belt. When Mr. Nugent took the chair, he would do the same. He would wish that Mr. Nugent would allow that to be his last appearance. He was going away for a time, and when he came back, if he found Mr. Nugent as president he would be more than thankful.

APPRECIATION OF OFFICIALS

The VICE-PRESIDENT proposed a vote of thanks to the Registrar, Miss Grene. When he called, he said, during office hours, Miss Grene was always there, no matter what difficult question or difficult proposition he had, she was always ready to help him out. Not only was she most attentive to the president, vice-president, treasurer, and other members of the Council, but the students had nothing to say for her but very kind words. She helped them in every possible way except at the examinations. (Laughter.)

Mr. KERR said he had pleasure in seconding the vote of thanks to Miss Grene. Those of them on the Council, and especially those on the Legislation Sub-Committee, knew the times they had called on her for information.

The PRESIDENT asked the meeting to carry the vote of thanks by acclamation, and the request was acceded to.

Miss GRENE, in acknowledging the vote of thanks, said she was very much flattered by the nice things the vice-president and Mr. Kerr had said about her. Even when the work was strenuous she always got the greatest assistance, kindness and courtesy from the members of the Society, and everyone connected with it.

On the motion of Sir THOMAS ROBINSON, seconded by Mr. Gorry, a vote of thanks was also passed to the treasurer, Dr. Michael Ryan, for the satisfactory financial report presented to the meeting.

Veterinary Posology

IN the *C. & D.* book, "Veterinary Counter Practice," there is a posological table relating to nearly 300 drugs commonly used in veterinary practice; the following list

is intended to be supplementary to that, so that together they provide what is probably the most up-to-date posological table available:—

Drug	Horse	Cattle	Sheep	Pig	Dog	Cat
Absinthium	3ij.-viiij.	—	—	gr. xv.-3j.	gr. viij.-3ss.	—
Acid. acetic dil. .. .	3j.-iiij.	—	—	3j.-iiij.	3ss.-3jss.	—
Acid. acetyl salicyl. ..	3ij.-iiij.	—	—	gr. xx.-xl.	gr. ij.-xv.	gr. j.-v.
Adrenalin. chlor. sol. 1-1,000 (oral)	3ss.-j.	3j.-ij.	℥x.-3ss.	℥v.-xx.	℥v.-x.	℥j.-ij.
Adrenalin. chlor. sol. 1-1,000 (injection)	—	—	—	—	—	℥ss.-j.
Aloinum	3iss.-ij.	3iss.-iiij.	gr. xx.-3j.	gr. xx.-3j.	gr. ij.-x.	gr. ss.-iiij.
Arecolin. hydrobrom. (oral)	—	—	—	—	gr. $\frac{1}{2}$ o- $\frac{1}{2}$	—
Arecolin. hydrobrom. (injection)	gr. ss.-jss.	gr. ss.-j.	—	gr. $\frac{1}{16}$ - $\frac{1}{8}$	gr. $\frac{1}{20}$ - $\frac{1}{10}$	—
Barii chloridum (oral) ..	3ss.-iiij.	—	—	—	—	—
Barii chlorid. (injection) ..	gr. iv.-xx.	—	3ss.-ij.	—	gr. v.-xx.	—
Calcii glycerophos. .. .	—	—	—	—	gr. ij.-v.	—
Calcii hypophosph. .. .	3ss.-j.	—	—	gr. iiij.-xv.	gr. ij.-v.	—
Calx chlorinat. .. .	3j.-ij.	3j.-ij.	gr. x.-3ss.	gr. v.-3ss.	gr. v.-xx.	—
Carbo animalis .. .	3ss.-3jss.	—	—	3ss.-3jss.	gr. xv.-3j.	—
Carbon. tetrachlorid. pur. ..	—	3ss.-3jss.	℥x.-3iv.	—	℥v.-3ss.	—
Carui fruct. pulv. .. .	3ss.-j.	3j.-ij.	3j.-iiij.	3ss.-ij.	gr. xv.-3ss.	—
Cascaril. cort. pulv. .. .	3j.-iv.	3ij.-3j.	gr. xx.-3j.	gr. x.-3ss.	gr. v.-3ss.	—
Chinosol	3ss.-ij.	—	—	gr. iv.-xij.	gr. ij.-vj.	—
Chinosol (udder injection) ..	—	3j., aq. Oj.	—	—	—	—
Chloretone	3ij.-3iv.	3ij.-3iv.	3ss.-j.	gr. xv.-xl.	gr. iiij.-xv.	gr. ss.-iss.
Chloroformum (inhalation)	3ij.-viiij.	—	—	3ss.-j.	3ss.-j.	—
Coriandri sem. pulv. .. .	3ss.-j.	3j.-ij.	3j.-iiij.	3ss.-ij.	gr. xv.-xl.	—
Cresol	3ss.-iss.	—	—	℥iv.-xij.	℥ij.-vj.	—
Cupri acet.	3ss.-ij.	—	—	gr. iiij.-x.	gr. $\frac{1}{4}$ -ij.	—
Dimol	3j.-ij.	3j.-ij.	—	—	gr. j.-vj.	gr. j.-iv.
Emul. ol. morrhui 33 $\frac{1}{2}$ per cent. ..	—	—	—	—	3j.-iv.	3ss.-ij.
Eserinae sulphas (injection)	gr. $\frac{1}{4}$ iss.	gr. $\frac{1}{4}$ ij.	—	gr. $\frac{1}{30}$ - $\frac{1}{10}$	gr. $\frac{1}{60}$ - $\frac{1}{16}$	—
Euonymiu.	—	—	—	—	gr. ss.-ij.	—
Exalgin	gr. x.-xx.	—	—	gr. j.-ij.	gr. ss.-j.	—
Ext. arnicae flor. liq. .. .	3ss.-iss.	3j.-ij.	℥v.-xv.	℥v.-xv.	℥ij.-vj.	℥ss.-ij.
Ext. cascarae	—	—	—	—	gr. ij.-viiij.	gr. $\frac{1}{4}$ -j.
Ext. cinchon. liq. (5 per cent. total alkaloids) .. .	3i.-iv.	3ij.-vj.	—	℥x.-3j.	℥v.-3ss.	℥j.-iv.
Ext. colchic. sem. liq. .. .	℥xx.-3j.	3ss.-3jss.	—	℥v.-x.	℥ij.-iv.	—
Ext. glycyrrh. liq. .. .	3ss.-ij.	3ss.-ij.	—	3ss.-ij.	℥xv.-3j.	℥v.-3ss.
Ext. phytolaccae (1=1) .. .	3ss.-j.	3j.-ij.	℥v.-xv.	℥iiij.-x.	℥ij.-v.	℥ss.-ij.
Ext. viburni prunif. .. .	3j.-iv.	3j.-iv.	3ij.-iv.	℥xv.-3j.	℥x.-3ss.	℥ij.-x.
Ferri carb. sacch. .. .	—	—	—	gr. v.-xx.	gr. ij.-v.	—
Ferri iodid.	3j.-iiij.	—	—	gr. vij.-xx.	gr. iiij.-x.	—
Glyco-heroin	—	—	—	—	℥x.-3ss.	—
Hexamethylenetetramin. ..	3j.-ij.	—	—	gr. vij.-xx.	gr. iiij.-x.	gr. j.-v.
Liq. formaldehydi .. .	3j.-ij.	—	—	℥xv.-3j.	℥ij.-x.	—
Luminal, sodium	—	—	—	—	gr. $\frac{1}{4}$ -j.	—
Naphthol (beta)	3ss.-iiij.	—	—	gr. iiij.-xv.	gr. j.-vj.	gr. ss.-j.
Ol. chenopodii	3j.-iv.	—	—	℥j.-x.	℥v.-xx.	—
Ol. eucalypti	3ss.-ij.	3j.-iiij.	℥x.-3ss.	℥iv.-x.	℥j.-v.	—
Ol. menth. pip.	℥xx.-3j.	3ss.-iss.	℥v.-xx.	℥iiij.-vj.	℥j.-iiij.	—
Ol. santali	—	—	—	—	℥v.-xx.	℥ij.-vij.
Paradichlorobenz. .. .	—	—	—	—	℥xv.-3jss.	—
Paraffium liquid. .. .	3j.-iiij.	—	—	3j.-iiij.	3ss.-ij.	℥xx.-3j.
Pil. hydrarg.	—	—	—	—	gr. ij.-vij.	—
Pilocarpin. hyd. (injet.) ..	gr. ij.-iiij.	—	—	gr. $\frac{1}{4}$ -j.	gr. $\frac{1}{20}$ - $\frac{1}{4}$	—
Piper. nig. pulv. .. .	3ss.-j.	3j.-iv.	gr. x.-3ss.	gr. x.-3ss.	gr. ij.-viiij.	—
Plumbi acet.	gr. xx.-3j.	—	gr. xv.-3ss.	gr. iiij.-xv.	gr. ss.-iiij.	—
Potas. permang. .. .	gr. xv.-3ss.	—	—	gr. ij.-v.	gr. j.-iiij.	—
Pulv. ipecae. co. .. .	3j.-iiij.	—	—	gr. x.-xl.	gr. v.-xv.	gr. ij.-x.
Pulv. rhei co.	3j.-iiij.	—	—	3j.-ij.	3ss.-j.	—
Sinapis sem. pulv. .. .	3ij.-vj.	3ss.-iss.	3ss.-ij.	3ss.-ij.	gr. v.-xx.	—
Sodii nitris	gr. xx.-3ss.	gr. xx.-xl.	—	—	gr. ss.-ij.	gr. ss.-j.
Spt. chlorof.	3ij.-v.	—	—	3j.-j.	℥x.-3ss.	—
Sulphonal	3ij.-viiij.	—	—	gr. xx.-xl.	gr. iiij.-3ss.	—
Syrupus Eastoni	3j.-ij.	3j.-ij.	3ij.-vj.	3ij.-vj.	℥v.-xx.	—
Syrupus scillae	3ss.-ij.	—	—	3ss.-ij.	3ss.-j.	—
Taka-diascasc	3j.-ij.	—	—	—	gr. iiss.	gr. j.
Terpin. hydras.	3ss.-j.	—	—	—	gr. j.-v.	—
Tetrachlorethylene. .. .	sml. tolerance	3j.-iv.	3ss.-3j.	℥xv.-3j.	℥iiij.-xv.	℥j.-iv.
Tinct. benz. co.	3j.-ij.	—	—	3j.-ij.	℥xv.-3ss.	—
Tinct. ferri perchlor. .. .	3iv.-3j.	—	—	℥v.-xx.	℥j.-x.	—
Tinct. iodi	3ij.-vj.	—	℥xv.-3ss.	℥xv.-3ss.	℥vj.-xx.	—
Veronal	—	—	—	—	gr. x.-3j.	—
Zinc. valerianas	3ss.-j.	—	—	gr. iv.-x.	gr. j.-i j.	gr. $\frac{1}{2}$ -j.

PROPORTIONATE DOSES FOR YOUNG ANIMALS

Dose	Horse	Cattle	Sheep	Pig	Dog
Normal	Over 3 years	Over 2 years	Over 2 years	Over 1½ year	Over 6 months
½ dose	1½-3 years	1-2 years	1-2 years	9-18 months	3-6 months
¼ dose	9-18 months	½-1 year	½-1 year	4½-9 months	1½-3 months
⅓ dose	4½-9 months	3-6 months	3-6 months	2½-4½ months	20-45 days
⅕ dose	1-4½ months	1-3 months	1-3 months	1-2 months	10-20 days

Before deciding on the size of the dose of medicine for any particular animal there are a number of factors which must be taken into account, those of most importance being: (1) Age; (2) weight; (3) sex; (4) previous administration; (5) nature of the disease; (6) combination with other drugs; (7) method of administration; (8) idiosyncrasy. The last-named is one over which the prescriber has little or no control, but the following notes will serve as a guide in respect of the drugs which are commonly employed, though obviously the list cannot be exhaustive.

Aloes: Climatic conditions influence considerably the effect obtained with this drug. It is unwise to administer to horses stabled in large towns a dose exceeding 3vj. It should also be remembered that for a horse in the South of England that dose would also be sufficient, while the same animal in the North of Scotland would need 3x.

Aloin: This can be given in larger doses to dogs than to man.

Carbolic Preparations: In the case of dogs it is advisable to avoid the lotions, ointments and soap containing carbolic acid or its homologues as fatal poisoning may result through absorption.

Carbon Tetrachloride: It has been found that sheep on certain pastures do not tolerate this drug at all well, while in other districts quite large doses can be given without any untoward effects, so that it is strongly recommended that before treating a flock one or two animals should be dosed to ascertain if the drug is well tolerated. In any case only the chemically pure drug should be employed.

Chloretone: Cats have small tolerance to this drug, and the dose should not exceed gr. ij. It is perhaps best to avoid prescribing it for these animals.

Cream of Tartar: A case in which ducks were poisoned by cream of tartar was described by G. W. Clough in the "Veterinary Record," 1925, p. 719.

Mercurial Preparations: Cattle are susceptible to these.

Morphine Salts: These often drive cattle and cats into delirium; dogs, on the other hand, can sometimes be given comparatively large doses (orally) without effect.

Strychnine: Dogs and cats are particularly susceptible to strychnine poisoning, even if given in the smallest of doses.

Sulphur: Excessive doses of sulphur have been responsible for several cases of poisoning in animals, notably horses and pigs.

Veterinary Notes

RIDDING PIGS OF LICE

The following is the formula of a preparation recommended by a writer in the "Queensland Agricultural Journal" (March, 1928) for ridding pigs of lice and similar parasites:—

Benzin	...	...	...	...	½ pint
Kerosene	...	...	...	...	½ pint
Fish oil	...	...	...	...	7 pints

Cotton seed oil or neatsfoot oil can be employed in place of fish oil, as this is used as the vehicle and for softening the skin rather than for the purpose of destroying the lice. A second application of the mixture should be given about three days after the first one, and then periodically.

DISHORNING CATTLE

CHEMISTS receive from time to time inquiries for a chemical dishorner, and the preparation to supply for this purpose is either a strong solution or a stick of caustic potash. This is applied to the bud of the horn once every second day for a week, when a scab will form over the bud and then drop off, carrying with it the cells which would have formed the horn. Little or no pain is occasioned, but it should be pointed out to the customer that the operation must be carried out before the animal is one month old, otherwise, under the Animals' Anaesthetics Act, it is necessary to administer a general anaesthetic before the dishorning is commenced. When it is desired to remove the tips of the horns from cattle—as may be necessary when they are in a confined space for fattening owing to the risk of their maiming one another—a special instrument known as a horn guillotine is generally used.

HYSTERIA IN THE DOG

THIS complaint has lately received considerable publicity in both the technical and the lay Press. A correspondent of the "Morning Post," January 30, 1928, claimed to have discovered a cure, the prescription for which he offered to send to any inquirer who enclosed a stamped envelope. The formula he advocates is: Lysoi mxv., friar's balsam 3ss., ether 3vij., olive oil 3x., the instructions being to pour it into the ear. It is noteworthy, however, that the malady is by no means

a new one, it having been described by more than one observer some fifty years ago, while in the "Veterinary Journal," August 1882, is a translation of some notes by Nocard, who recommended the following treatment: Naphthol 5j., ether 3ij., olive oil 3x. The preparation should be poured into the ear, which is then plugged with cotton-wool for ten or fifteen minutes. The treatment should be repeated every two or three days.

MINERAL REQUIREMENTS OF PIGS

Most makers of pig meals now add mineral mixtures to adjust the meal to the mineral requirements of the pig, state J. B. Orr and A. Crichton, in the course of a "review of the recent work on the nutrition of the pig" ("Transactions of the Highland and Agricultural Society of Scotland," 1927). Cereals and most other concentrates contain too little calcium, sodium and chlorine, and in some cases too little iron or iodine. It is obvious that a mineral mixture depends on the nature of the ration to which it is added, and one of the simplest ways of ensuring an adequate supply of minerals is to provide a mixture in a box to which the pigs have access. Evvard, who has done a large amount of important practical work on mineral requirements of pigs, recommends the following mixture:—

Salt	...	...	...	...	24 parts
Ground limestone	...	...	...	...	40 parts
Bone meal	...	...	...	...	40 parts
Potassium iodide	...	...	...	...	0.04 part

This is supplied in a box to which the pigs have access at all times. Another method is to provide four boxes containing respectively: (1) ground limestone, slaked lime or chalk; (2) bone meal; (3) common salt; (4) a mixture of coal and wood ashes. The pig then supplements its ration according to its instincts. Special provision has occasionally to be made for iron and iodine, which are both required in small amounts. Ferric oxide is the cheapest form of iron, about one ounce in a hundredweight of the food fed to suckling pigs being sufficient. In most districts in this country there is probably sufficient iodine in the foodstuffs and water, though in some cases there is a deficiency. Only very small amounts of iodine are required, half an ounce of potassium iodide per ton of foodstuff being sufficient.

Pharmaceutical Society of Northern Ireland Annual Meeting

THE third annual meeting of the Pharmaceutical Society of Northern Ireland was held on October 1 in the Belfast Chamber of Commerce, the president (Mr. A. C. McBride) in the chair. There was a fair attendance. Apologies for absence were received from Messrs. S. Gibson, S. S. Badger, R. H. Kerr, W. E. Wilson, J. R. Guiler, J. H. Haslett and John Maxwell.

PRESIDENT'S ADDRESS

Mr. McBRIDE, in the course of his presidential address, said it was his privilege to give a short analysis of the work done by their Council during the past twelve months. They quite felt and knew that there were those who did not quite agree that they had done very much, but he could assure those who did not see with them that a wonderful work for the advancement and uplifting of pharmacy had been carried out. Since the Act was enforced in 1925 the total numbers who had qualified were as follows:—Registered druggists, 113; others, 65. The Christmas examination of 1927 was as follows:—Entries, 42; passes, 18; failed, 19; referred, 5. In the June 1928 examination they had 91 entries, passed 41, failed 36, referred 11, doctors' certificates 3. Those examinations had entailed on the Council a great deal of care, attention and time. Their Council had had eleven meetings and nineteen committee meetings. The attendance was very good indeed, and they could not complain that their Council as a body neglected their interests.

Their examinations showed a very high standard, and they congratulated those who had been successful. He made reference to their vice-president's son, Mr. Hardy, who was the first male candidate who had the honour to pass the pharmaceutical examination under the new syllabus. To that brilliant young pharmacist they tendered hearty congratulations. He wished them thoroughly to understand that in a year at least the entries for the examination would be reduced very much; in fact, he should say that the numbers would hardly exceed 40 to 50 annually, and, therefore, naturally their finances would be very much lowered.

Regarding the nominees of Queen's University, the wholesale drug trade and the medical committee of Northern Ireland again appointed for the next three years Professor Small, Dr. Fielden, Mr. T. W. McMullan, M.P., and Dr. Acheson. All those nominees had taken a great part in building up their Society and interested themselves greatly for its betterment. The members returned to the Council this year were Mr. Badger, Mr. Lancashire, Mr. Todd, and a new member, Mr. H. McRoberts. He felt sure that Mr. McRoberts, who was well known to them all, would be a worthy successor to Mr. J. C. Culbert, who had not offered himself for re-election. Mr. Grimes was again elected, but owing to the new formation of the members according to the Act of Parliament, Mr. W. J. Rankin did not offer himself for election. To Mr. Rankin he offered on behalf of the Council their best thanks for all his great services to the Council and pharmacy in general. Personally, he was sorry to lose Mr. Rankin, and in his retirement he had their best wishes.

He would like to refer to the technical schools in the provincial towns. Several of those had been visited by their Council and recognised for teaching the subjects for the preliminary examination. He strongly urged the employers to allow their apprentices out in time for the night classes, and by so doing they would enable the candidates to pass their examinations during apprenticeship or immediately after.

It was his sad duty to refer to the deaths of several of their valued members during the year. To the sorrowing friends of the following they extended their deepest sympathy:—R. McCay, J. McC. Cherry, A. Morris, J. Tate, J. Maxwell, and J. Walker, members; E. E. G. Drennan and R. Allen, associates.

He had to thank their delegates to the Home Office who, on several occasions, discussed the various matters affecting pharmacy, and more particularly those who

had looked after the agricultural poisons. The appeal to those who had received licences had been well sustained. To Mr. Greer, the registrar, they were deeply indebted for his courtesy, kindness and tact on all occasions.

From a commercial point of view the past year had been a very trying one indeed for trade generally, and, therefore, it very naturally reflected on their own profession. He trusted that during the coming year their different lines of trade in their Northern area would improve, and he was very pleased to know that from the general opinion of things it was likely to do so.

During the year the very vexed question of reciprocity was taken up. With that end in view a deputation was asked to be sent to them from the Pharmaceutical Society of Great Britain. The president of the Council (Mr. Herbert Skinner) and the secretary (Mr. Linstead) visited Belfast and were entertained by a committee appointed by the Council—Mr. Hardy, Mr. Storey, Mr. Todd, Mr. Gibson, Mr. Kirkpatrick and himself. Those gentlemen with their committees also visited the various examinations that were then on, and seemed to be greatly impressed with them. At a dinner in the Grand Central Hotel at which members of the Government were present, Mr. Skinner said he was greatly pleased with what he saw, the way the examination was held, the style of candidates, and the various settings of the examination questions. He was more than pleased, he said, to come over and see things for himself. He also visited the College of Technology and Queen's University. At the same time that Mr. Skinner was here an invitation had been sent to Mr. Fitzpatrick, the president of the Irish Pharmaceutical Society's Council, so that matters affecting pharmacy might be discussed and at the same time to nominate from the three Societies members as allowed them on the Selection Committee for compiling the new Pharmacopœia. He felt that the visit of those gentlemen had done them a great deal of good. Following up the visit of the president, at the request of their Council, he visited, in conjunction with their secretary (Mr. Kirkpatrick), the British Pharmaceutical Conference at Cheltenham, and he must say they were loyally treated, members of the committee vying with each other to make their visit an enjoyable one. He attended the Conference committees as their president and the several sessions. He was given the honour of proposing the vote of thanks to the Conference Local Committee. He must say that during the coming year he would like to see a building purchased or built for their requirements. He thought the time was ripe, and that it was very needed. Might he suggest to those who followed after that rooms be made to hold their examinations in materia medica, botany and chemistry, with practical pharmacy classes formed where their several students could be taught, and that it be a home from home, not only for Belfast, but for those coming up from the country. He felt very much over this, and trusted it would be put in shape very shortly.

Might he say that he was more than delighted that the pharmaceutical chemist and registered druggist had come together and that all jealousy had departed. He would like to thank the several members of the Council for their loyal support to him, also Mr. Dundee for his treasurership, their secretary (Mr. Kirkpatrick), who was always ready to help, and last, but not least, Miss Kirkpatrick, whose kindness and courtesy was always the same. He was very glad to see that the meeting of the chemists of Belfast had had the desired effect as regards early closing, and that the matter had been satisfactorily arranged. In conclusion, he would like to say that out of the several meetings and the visits of their representatives, as well as the getting in touch with the chemists of England, Scotland, and Wales he felt satisfied that something of real importance would come.

Mr. CULBERT congratulated the president on his strenuous year of office, and urged the members to pay close attention to the business transacted on the Council. He asked how many licences for the sale of agricultural poisons had been opposed by the Council, and how many had been afterwards granted by the Government. He would like to know what steps the Council had taken to protect the public from the distribution of poisons by public health authorities. It was common knowledge

that aspirin, phenacetin, and other articles were sold by slot machines, and by grocers, hairdressers, confectioners and others, and he asked for information as to what the Council had done in the matter; he also asked what the Council had done in the matter of apprentices, and how many chemists had six apprentices.

The PRESIDENT replied that Mr. Culbert had been on the Council for the past three years, and knew perfectly well what had been done in the Council. Nothing had been done in the way of getting aspirin, phenacetin, etc., on the poisons list. Whether it was advisable or not was a matter for the Council. Regarding the licences, the Home Office had done splendidly, and the secretary would give them the number of licences applied for. The Council was doing its best to carry out the law as far as it was able. Regarding apprentices, he hardly thought any chemist had six apprentices, but until apprenticeship was by indenture and stringent rules were laid out they would not get over that question. He was always against the limiting of apprentices, and did not like to interfere in any way with the liberty of the subject. The chemist should not take an apprentice till he passed his Preliminary, and he was sorry some chemists had taken boys without their having done so.

STATISTICS

The SECRETARY, at the request of the chairman, gave the meeting some interesting information. He said that on September 1, 1928, the number of names on the registers were as follows:—Pharmaceutical chemists, 559; superintendents of bodies corporate (Ph.C.), 44; chemists and druggists, 16; superintendents of bodies corporate (C. & D.), 2; registered druggists, 318; superintendents of bodies corporate (R.D.), 2; certified assistants, 17; apprentices, 317. Registered druggists' assistants and apprentices who had become qualified as pharmaceutical chemists and registered as such had an asterisk to their names in the register. The number of licences in force on September 1, 1928, was as follows:—Pharmaceutical chemists, 302; chemists and druggists, 5; registered druggists, 89. Those figures, compared with those for 1927, showed an increase of forty-seven in the number of pharmaceutical chemists' licences, an increase of one in those of the chemists and druggists, and a decrease of fourteen in the number of registered druggists' licences. Of the total number of pharmaceutical chemists' licences, forty-nine had been issued to bodies corporate and eight to executors of deceased pharmaceutical chemists. Of the total number of registered druggists' licences, two had been issued to bodies corporate, and five to the executors of deceased registered druggists. On March 23, 1927, an Order had been made under subsection (2) of Section 17 of the Pharmacy and Poisons Act (Northern Ireland), 1925, reducing the licence fees in cases where licences had been taken out during the year, and also allowing for a reduction in the case of registered druggists and chemists and druggists in possession of a current licence and had become qualified as pharmaceutical chemists and desired to practise as such.

As to licences for the sale of poisons used in agriculture and horticulture, it was proposed to issue a new Order under Section 2 of the Poisons and Pharmacy Act, 1908, which would prevent local authorities issuing licences to persons whose licences had been cancelled by the Minister of Home Affairs. Further action under Section 24 (6) of the Pharmacy and Poisons Act (Northern Ireland), 1925, had been postponed pending the issue of this Order. On June 1, 1928, there were ninety-three of those licences in force in Northern Ireland. On October 7, 1927, the Governor and Privy Council of Northern Ireland had made an Order amending the Poisons Schedule. The effect of this Order had been that carbolic acid and preparations containing more than 3 per cent. thereof may be sold only by qualified persons, or by traders holding a licence under the Poisons and Pharmacy Act, 1908.

During the year under review the inspector had paid 752 visits of inspection to pharmaceutical chemists, chemists and druggists, and registered druggists. He had paid 160 visits to agricultural poisons licence holders, and forty-two visits to traders who had been previously reported for selling poisons. There were two prosecu-

tions under the Dangerous Drugs Act, 1920, for unauthorised sale of laudanum, and in each case a fine of £5 had been imposed. There had been three prosecutions under the Act of 1925; one for selling strychnine, when a fine of £5 and costs was imposed; one for selling sheep dip and rat poison, when a fine of £1 15s. and costs was imposed; and one for selling sheep dip. In the last-mentioned case there were two partners in the firm, and both were fined £1 each and costs. Proceedings had been instituted against one firm for using an illegal title, but were dropped on the defendant paying the costs and giving a written undertaking that he would in future observe the law.

The Imperial Dangerous Drugs Act, 1925, which did not apply to Northern Ireland, except as regarded imports and exports, had been brought into operation on September 25 by an Order in Council. An Order in Council had also been made under Section 8 (2) of the Dangerous Drugs Act, 1920, enlarging the definition of "Dangerous Drugs" contained in Part III of that Act. It was proposed to bring the Dangerous Drugs Act (Northern Ireland), 1925, into force at an early date, so as to assimilate their Dangerous Drug Law to that at present in operation in England. It was hoped in the near future to issue consolidated Regulations under the Dangerous Drugs Act of 1920, as amended by the Acts of 1924 and 1925.

It was pleasing to be able to report that the sale of methylated ether for drinking purposes had almost entirely ceased, and in that connection the Minister desired it to be conveyed to the members and associates of the Society his thanks for the valuable assistance they had rendered him in stamping out that abominable practice. Several cases of the use of illegal titles had been dealt with, and in every case the offender had complied with the law on his attention being drawn to it.

The registrar had undertaken to compile that part of the calendar which contained the various statutes and orders governing pharmacy and dangerous drugs. This was now in proof, but in view of the many changes which the coming into operation of the Dangerous Drugs Act of 1925 would make, it was suggested that it would be advisable to postpone the publication of the calendar until early next year. By so doing it would be possible to include the consolidated Dangerous Drug Regulations, and certain other minor alterations in the law which were at present pending.

DISCUSSION

Mr. CULBERT said that the reply showed something had been done and removed a certain amount of doubt. Would it not, however, be a good thing if there was a register of apprentices?

The SECRETARY said they would have no control over them.

The PRESIDENT said the Registrar at the Home Office kept the register.

Mr. F. STOREY drew attention to the wholesale trade. He said the wholesalers acted generously in allowing themselves to be prosecuted if they sold poisons to other than registered persons. He congratulated the president on his conduct in the chair, which had been a credit to himself and the Society. He agreed with the president that they should have premises of their own. The sooner they tackled the matter the better. They had a little money, and the time had arrived to take up the question of having premises for examinations, for teaching if necessary, for a library, and for a club to which country members could drop in. He believed the Government would help them in the matter if they got their eye on decent premises in the centre of the city. Mr. Storey expressed regret at the withdrawal of Mr. Rankin from the Council. He had been a solid friend to the trade for many years, and his loss to the Council was very great.

Mr. T. W. McMULLAN, M.P., said he had fought the case of the Society in the House of Commons as far as he could. He had already stressed the necessity of the Society having its own building. To secure that they must have capital, and he had already appealed to the Government on that point. The Government gave them all the fees for two years and half fees after that, and

for the last two years they had got three-quarters fees. They had a kindly Minister of Finance, till they came to touch the public purse. (Laughter.) The Council was greatly indebted to the president for the manner in which he had carried through the business during the year.

Mr. J. ADAMS hoped the Council would oppose any effort to have the proposed new heroin regulations in England made applicable in Northern Ireland. Drug-taking was not nearly so prevalent here as across the channel.

Mr. J. GUILER urged that the regulations for Northern Ireland, so far as the Fairchild scholarships were concerned, should be made clearer. He hoped that they would have more Fairchild candidates from the North. This year there were three, and their papers were above the average.

Mr. ROBERT ANDREW thought the Council should try to insist that the dispensers to the Board of Guardians in Belfast should be qualified men not in business for themselves.

Mr. J. DUNDEE, presenting the accounts for the year, referred to the falling-off in members' subscriptions. He put that down to the fact they had no election this year. (Laughter.) They had now a capital of £4,000 in cash. Their total income for the year was £2,252, but there would be a decrease in that, as they would not have the same number of examination entrants in future.

Mr. STOREY moved and Mr. HARDY seconded the adoption of the financial statement.

The PRESIDENT thought that the examiners' fees were too high and a new arrangement would have to be made. They had no fault to find with the work of the examiners, but they would have to reduce their fees. The examinations cost them nearly £500 a year.

Mr. STOREY thought that if the trade organisations were amalgamated, as was proposed, the subscription to the Society might be reduced.

The financial report was adopted. [The principal items are printed below.—EDITOR.]

The PRESIDENT invited discussion on the question of providing a building for the Society. He would like to have the opinion of the members. There was a great want for a place of the kind for the trade. They could either purchase a building or erect one.

Mr. J. MACAULEY, as an outsider, supported the view of the president. The rooms of the Chemists' and Druggists' Society had been a great help to him, for he had made friendships there he could never forget. He moved that the Council be directed to go on with the building in whatever shape they considered best.

Mr. MOORE seconded the resolution.

Mr. ANDREW asked if they should not keep their money. He would not go the length of proposing an amendment. The resolution was passed without dissent.

Mr. STOREY moved a vote of thanks to the two members of the Council who had retired, Mr. J. C. Culbert and Mr. W. J. Rankin, for their services. At the same time, he congratulated those who had come back and Mr. McRoberts, their new member.

Mr. ANDREW seconded the resolution, which was passed by acclamation.

The PRESIDENT, in putting the resolutions, referred specially to the work of his predecessor, Mr. Todd, who had been returned unopposed. He had a splendid Council which was heart and soul in everything for the advancement of pharmacy. They were all out to do what they could for their young men, and that was why he was so strong on the new building.

Mr. CULBERT returned thanks, as did Mr. H. LANCASHIRE and Mr. H. TODD for the re-elected members of the Council. Mr. Lancashire referred appreciatively to the work of the Ballymena Technical School in preparing pharmacy candidates. Mr. McROBERTS, as the new member, also returned thanks.

On the motion of Mr. McMULLAN, a cordial vote of thanks was proposed to the president, Mr. McBride, the treasurer, Mr. Dundee, and the secretary, Mr. Kirkpatrick, for their work during the year.

Mr. GUILER, in seconding, referred also to the assistance given by Miss Kirkpatrick in the office.

The resolution was passed by acclamation, and was acknowledged by the recipients.

Balance Sheet

The following are the principal items of the balance sheet :—

Expenditure		£	s.	d.
Rent, rates and insurance	...	177	13	0
Salaries, examiners', solicitors' and auditors' fees	...	734	3	6
Lighting	...	11	6	10
Telephone	...	10	12	2
Office stationery	...	51	18	1
Exam. printing stationery and expenses	...	102	1	1
Advertising	...	8	12	6
Postages	...	14	2	11
Travelling expenses	...	72	12	6
Entertainment re English delegates	...	54	0	10
Library expenses	...	12	12	9
Sundries	...	26	12	6
Excess of income over expenditure for year	...	976	7	7
		£2252	16	3
Income		£	s.	d.
Subscriptions	...	95	4	0
Licences	...	858	2	3
Registration fees	...	30	0	0
Certificate fees	...	93	2	0
Examination fees	...	1057	6	0
Interest on investments	...	119	2	0
		£2252	16	3

The capital account shows a total, including the past year's balance, of £4,483 10s. 6d.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, October 15

Pharmaceutical Society of Great Britain, Birmingham and District Branch, Imperial Hotel, Temple Street, Birmingham, at 8.30 p.m. Annual general meeting. Election of committee and alteration to rules.

Tuesday, October 16

Retail Pharmacists' Union, Birmingham Branch, Imperial Hotel, Temple Street, Birmingham, at 8.30 p.m. Annual general meeting. Election of committees and alteration to rules.

Birmingham Pharmaceutical Association, Imperial Hotel, Temple Street, Birmingham, at 9.15 p.m. Annual general meeting. Declaration of council and alteration to rules.

South-West London Chemists' Association, Carpenter's Restaurant, 3-4 Clapham Pavement, London, S.W.4, at 8.30 p.m. Joint meeting with Junior Section. Lecture-demonstration on use of Dennison crêpe in window dressing.

Wednesday, October 17

Manchester Pharmaceutical Association, visit to Manchester Royal Infirmary.

Pharmaceutical Society of Great Britain, East Metropolitan Branch, Room 3, Church Institute, 27 Romford Road, near Stratford Broadway, London, E.15, at 8.45 p.m. Annual meeting.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, Liverpool, at 8.30 p.m. Opening meeting. Lecture by Mr. A. J. Jones on "Sidelights into Manufacturing Pharmacy."

Pharmaceutical Society of Great Britain, Newcastle District and Northumberland Branch, the Minories, Jesmond Road, Newcastle, at 7 p.m. Whist drive and dance. Tickets 3s. 6d. each.

Gordon Hall School of Pharmacy for Women, Drayton House, Gordon Street, London, W.C.1, at 3 p.m. Opening of new premises. Address by Lady Barrett, M.D., B.S., in Room 7 of the Friends' Meeting House, Euston Road. Mr. R. R. Bennett will be in the chair.

Thursday, October 18

Chemical Society, Burlington House, London, W.1, at 8 p.m. Ordinary scientific meeting.

Chemists' Dental Society, Imperial Institute, South Kensington, London, S.W.1, at 5.30 p.m. General meeting. (Council meeting at 5 p.m.)

North-East London District Pharmaceutical Association, St. John's Institute, Urswick Road, Homerton, London, E.9, at 3 p.m. Opening meeting. Address by Dr. F. Leonard Keith on "The Public Health Services of Bethnal Green."

Western Pharmacists' Association, Slaters' Restaurant, 192 Oxford Street, London, W.C.1, at 7 p.m. Annual reunion supper and whist drive. Tickets 5s. each.

Colic in Horses

THERE are a large number of different conditions which may cause abdominal pains in horses and the symptoms which most stablemen would describe as colic or gripes. Apart from the similarity in these cases, there are usually symptoms which indicate the nature of the trouble, and a little questioning of the owner or attendant should enable the chemist to form a pretty sure diagnosis. Among the various causes of colic reference must be made to overwork without food, which subsequently results in the horse eating ravenously; too little exercise and at the same time being given full working feeds; unwholesome and indigestible food; irregularity of feeding times; and parasites.

SPASMODIC COLIC

In this form of the complaint the pain comes on suddenly, frequently after the evening meal. There is general uneasiness at first, then spasms of acute pain. The horse is usually very violent, paws and kicks at itself, throws itself down, rises suddenly and looks round at its flanks, sometimes biting them. The animal perspires, breathing is faster than usual, and it will often stretch as though to pass urine, but without result. This type of colic can be distinguished by the fact that the pain is intermittent, while between the attacks the horse behaves normally. The cause may be due to copious draughts of very cold water while the animal is heated or after feeding, or to either of the last three of those mentioned above. In a case of this nature either of the following draughts can be given:—

I			II		
Æther. rect.	...	3ss.	Spt. ammon. arom.	3j.	
Tr. opii	...	3vj.	Spt. æther. nit.	3i.	
Ol. tereb.	...	3j.	Ol. lini	...	ad Oj.
Tr. asafet.	...	3iv.	In a drench, repeated in an hour if necessary, but with gruel instead of linseed oil. Also give copious enemias of warm soapy water.		
Ol. lini	...	ad Oss.			

This may be repeated in an hour if necessary.

Spasmodic colic is sometimes caused by worm infestation, in which case the following treatment is simple and usually effective:—A bran mash overnight and no further food until after being given a drench composed of

Ol. tereb.	...	...	...	...	3ij.
Ol. lini	...	...	...	...	ad Oj.

Naturally, before prescribing, it should be ascertained if anything has already been given, as upon the answer depends the modification of the dose.

FLATULENT COLIC

Flatulent colic is not so often traceable to an immediate and exciting cause as to such chronic reasons as indigestion, improper food, over-feeding, long spells of idleness and fast driving on a full stomach; wind-suckers, cribbers and weavers are most frequent subjects, though any horse is liable to it. As to symptoms, these are similar to those of spasmodic colic, only continuous, and the abdomen is much more distended with gas. That is one marked symptom which will enable flatulent colic to be distinguished—the drum-like condition of the belly. As first-aid treatment either of the following draughts can be given:—

I			II		
Spt. ammon. arom.	3j.		Spt. ammon. arom.	3j.	
Tr. asafet.	...	3j.	Tr. opii	...	3j.
Ol. tereb.	...	3j.	Aquam.	...	ad Oss.
Ol. lini	...	ad 3xv.	The dose can be repeated in half an hour if necessary.		

Frequent doses of sodium hyposulphite, particularly with nux vomica, have been found of great benefit in cases of flatulent colic. After giving the drench some exercise is to be recommended, as this increases the natural movements of the intestines and so aids the expulsion of the gas. If the case is somewhat advanced and other remedies have been tried, while there is also evidence of extreme prostration (indicated by cold ears and legs), the case should not be undertaken except by a veterinary surgeon. An alternative preparation for treating flatulent colic is that described by R. J. de C. Talbot in

the "Journal of Agriculture of Victoria" (October 1927), who recommends the following:—

Bicarbonate soda	...	...	...	6-8 oz.
Water, warm	...	...	...	2 pints

Follow in half an hour with—

Linseed oil	...	...	...	1 pint
Turpentine	...	...	...	2 oz.
Lysol	...	...	...	1 dr.

Copious enemias of warm soapy water every hour.

In severe cases the bowel is punctured by means of trocar and canula, the site being the highest point of the swelling on the right flank, but this is an operation for a veterinary surgeon.

WHEAT COLIC

This form of colic and sand colic are also dealt with by the same author. In regard to the former he states, this is likely to happen in wheat-growing districts, when horses break into a shed or stack containing wheat. The animal appears uneasy and has short attacks of pain; it throws itself down and rocks about. Soon the pain becomes more severe, and the animal appears to be trying to vomit; it may sit up in dog-like fashion, and gas escapes from the nostrils followed by a sour-smelling froth. If treatment is not quickly adopted the animal will soon die, the immediate cause of death being rupture of the stomach. The treatment recommended is the sodium bicarbonate draught mentioned above, followed in one hour with the linseed oil, turpentine and lysol draught. Experiments at the Melbourne University Veterinary School in regard to this disease proved that the most essential treatment was to give the animal large quantities of water. If it will not drink, the water should be given as a drench. As this form of colic is frequently followed by laminitis or "founder," the animal, as soon as the colicky pains have ceased, should be stood in water up to its knees and allowed to remain there for some days. This will often prevent the occurrence of founder.

SAND COLIC

Sand colic is due to large accumulations of sand in the intestines. This causes almost chronic indigestion, and the animals, invariably in poor condition, suffer frequently from violent attacks of colic. To prevent the repeated attacks the sand must be removed, a not easy matter. Mr. Talbot specially recommended treatment as follows, it having proved effective in many cases:—

Honey	1 lb.
New milk	2 pints

as a drench. Followed by

Paraffin	1 pint
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daily, for three days, and

Soap and water enemias daily.

If possible, green feed both before and after treatment is commenced. During the colicky attacks give the drench recommended for spasmodic colic.

There is a natural tendency on the part of horse-owners, when an animal is attacked with colic, to use the drench most easily available, regardless of the cause of the complaint or the nature of the drench. The simple cases of colic seldom last more than six hours, in fact that period of time is a fair indication that the condition is one for a veterinary surgeon, if available, for it must be remembered that many cases of colic end fatally through not receiving adequate attention at an early stage. Preparations containing opium in some form or another allay the pain but *per se* tend to inhibit peristalsis and so really aggravate the complaint rather than cure it. Turpentine, ginger and sal volatile are stimulants and carminatives and tend to dispel the gas, while linseed oil is a mild laxative which softens impacted masses and soothes irritated mucous membranes.

"SOUTH-EASTERN YEAR-BOOK" is the title of a thirty-four page booklet which has just made its appearance, containing the fixtures for the 1928-29 session of the South-East London Chemists' Association, S.E. Metropolitan Branch of the Pharmaceutical Society and the Junior Section. The booklet contains some notes on the history of the Association and a foreword by Mr. Herbert Skinner, president of the Pharmaceutical Society.

Canine Distemper

THE Scientific Research Commission appointed a few years ago, and financed by a public appeal inaugurated by the "Field," has done valuable work at the isolation compound at Mill Hill, London, where its investigations and experiments are still proceeding. Recent reports indicate that the true cause of distemper is a filter-passing ultra-microscopic virus. By means of this the disease has been communicated to dogs and ferrets, and has subsequently been cured in these subjects. Further research into theories of heredity or hereditary predisposition to distemper have revealed important results. Efforts are now being made to discover a safe and effective serum the use of which will enable the veterinary profession—aided by the public—to stamp out this appalling disease. Meantime, and pending the discovery of such a serum, the public is being supplied with a variety of "unofficial" serums, and the demand for these is steadily increasing. It is well, however, to realise that the use of the serums at present on the market is necessarily experimental, and it is not possible, as yet, to guarantee immunity in the same way or to anything like the same extent as the immunity of the human subject can be guaranteed against smallpox by inoculation with calf-lymph, or from diphtheria by the use of anti-diphtheritic serum. That increased virulence has marked the attacks of the distemper virus during the last few years is abundantly evidenced by the fact that chorea or paralysis ("twitch" in popular parlance) supervening upon distemper has almost come to be the rule rather than the exception. The old school of fanciers held to the belief that distemper was caused by loss of condition and insanitary surroundings. When the science of bacteriology came into vogue, it was discovered that distemper was an infectious disease, and forthwith the men of science set about discovering the bacillus. So far they have not discovered it—they have only, as already stated, discovered a filter-passing ultra-microscopic virus. Recently a very minute bacillus, known as *Bacillus pneumosintes*, has been discovered, and is believed to be the infective cause of influenza. It may be that a similar discovery will disclose the distemper virus, which undoubtedly is far removed in relationship. One thing must never be lost sight of in regard to distemper cases—and that is that the disease takes several forms, or, to be more accurate, affects different organs in different subjects. There are three distinct varieties of distemper, known respectively as head, chest, and abdominal distemper, according as they attack different parts of the victim's body. Head distemper is the most serious, because there the virus has attacked the central nervous system and is likely to lead to chorea; whereas, when it attacks the digestive organs or the respiratory system, it can generally be dealt with more effectively. In numerous cases of head distemper the first symptoms of the presence of a virus in the system are to be seen in sudden and unexpected nerve or paralytic seizures, very difficult to counteract by reason of the hold that the virus has got upon the system. Now, although it is practically certain that one and the same germ is the cause of all three types of distemper, it is probable that its poisonous toxins vary. It may well be, therefore, that nutrition counts for a great deal in dealing with the disease, since the bacteria will form their toxin poisons according to the general state of the animal in regard thereto. Indeed, primary infection may result from or be avoided by the state of nutrition—the "receptiveness" or otherwise of the patient. This was undoubtedly the case in bygone days, because then it was by no means inevitable that every puppy should contract the complaint—the accepted rule to-day. This explains the view taken by veterinarians of the old school and their belief in the danger of malnutrition. The view is held that virulence is evidence of an increase in the offensive-defensive powers of the bacteria, with the result that they multiply more rapidly in the animal body and produce more powerful poisons. These poisons may be divided into two classes. In the first class are the exotoxins—poisons which the germs give forth during their existence. In the second class are the endotoxins. These latter are

secreted within the bodies of the bacteria and are only released upon the death and disintegration of the organisms. The exotoxins produce the first symptoms and give warning of the infection. The endotoxins are largely responsible for the more serious phases of the disease. It has been found that in some cases the reactions produced by the exotoxins were severe; yet the dogs recovered quickly. In others, judging from the early symptoms, there was scarcely any production of exotoxins, the bacteria reserving their energies for the secretion of the fatal endotoxins, which, being suddenly released, created a condition which in most cases resulted fatally. What, then, should be the attitude of the pharmacist when applied to for advice as to the advantages or otherwise of having puppies inoculated as a preventive of distemper? It would be prudent to point out that in the present state of scientific knowledge, inoculation is in the main an experiment, and must remain so until the English investigators at Mill Hill are able to isolate the ultra-microscopic virus and prepare a serum that will destroy it. Pending such discovery, let any of the advertised serums be used for what they are worth; but place reliance, as of old, upon careful dieting as a preventive, small frequent doses of quinine salicylate upon any sign of feverishness or shivering, and treatment *pro re nata* should any one of the three recognised forms of distemper develop later.—OBSERVER (15/30).

Milk Fever

THIS disease of milk cows, milk goats and sometimes of ewes and sows has been the subject of much speculation, but as the result of a paper recently read before the Dumfries and Galloway Division of the National Veterinary Medical Association it would appear that the concentration of calcium in the blood is intimately connected with the development of the disease and the recovery from it. Professors H. Dryerre and R. Greig, the authors, put forward in 1925 the theory that as the parathyroid glands play an important part in the regulation and maintenance of the level of calcium in the blood, in the event of their defective functioning there results a fall in blood calcium and the occurrence of tetany. The parathyroid secretion is also credited with bringing about destruction of toxic metabolites, such as guanidine. As the result of their subsequent investigations the authors find that the blood calcium values for normal parturient cows do not appear to present any difference from those of cows in advanced lactation (the content of a normal milch cow is generally accepted as varying from about 9 mgms. to 11 mgms. per 100 c.c. serum), though the onset of milk secretion is apparently accompanied by a fall in the blood calcium, which returns to normal after the commencement of lactation. In milk fever there is, invariably, a pronounced fall in the blood calcium and inflation of the mammae causes a pronounced rise in the blood calcium, cows showing signs of recovery when about 6 mgms. of calcium per cent. is reached. The authors stated they had not been able to test the curative effect of intravenous injections of calcium salts owing to the diffidence of stockowners, but they suggest that although it is probable that calcium administration would prove of benefit it might not be capable of replacing mammary inflation, as in the latter case the rise in calcium is sustained over the first few days of lactation, whereas when injected into the blood stream the calcium is quickly removed by the kidneys. There has lately been placed on the market a calcium preparation, which, it is claimed, can be maintained in the blood for twenty-four hours. Messrs. Dryerre and Greig consider that if their hypothesis be correct it ought to be possible to prevent the occurrence of the disease by suitable precautionary measures. This might take the form of ensuring calcium assimilation by means of a sufficiency of vitamin D in the animal's diet; or, alternatively, by administering to the animal a preparation which would supplement the action of the deficient parathyroids. The complete paper on the subject can be seen in the "Veterinary Record," September 8, 1928.

Trade Notes

VETERINARY PRODUCTS.—Attention is called to the coloured section in the advertisement pages in this issue, where will be found announcements relating to veterinary preparations. The manufacturers whose products are referred to include:—ALLEN & HANBURY, LTD.; ARCOS, LTD.; ARMOUR & CO., LTD.; J. C. M. BATTLE; BATTLE, HAYWARD & BOWER; BEECHAM-VENO DISTRIBUTING AGENCY; BENBOW'S DOG MIXTURE CO.; BIGOT SCHARFE & CO.; ROBERT BLACKIE; CARNEGIE BROTHERS; THE CATALINE CO., LTD.; THE DENVER CHEMICAL MANUFACTURING CO.; EVANS, GADD & CO., LTD.; FREUDENTHEIL, SMITH & CO.; THOMAS HARLEY; HARVEY & CO., LTD.; INJECTOR (LONDON), LTD.; JOHNSON BROTHERS; KAY BROTHERS, LTD.; LOFTHOUSE & SALTMER, LTD.; BOB MARTIN, LTD.; THE OLD STRAND CHEMICAL & DRUG CO., LTD.; PAINE & CO., LTD.; LEONARD SMITH & CO. (The Mond Staffordshire Refining Co., Ltd.); SOUTHALL BROTHERS & BARCLAY, LTD.; TOMLINSON & HAYWARD, LTD.; WRIGHT & HOLDSWORTH; G. H. ZEAL, LTD.

COLTON GELATIN CAPSULES can be supplied in any quantity by Supex, Ltd., 22 Cork Street, London, W.1.

F. C. CALVERT & Co., Manchester, have introduced a new counter display box containing one dozen tablets of Calvert's Carbolic Toilet Soap.

BENGUÉ & Co., LTD., manufacturing chemists, 24 Fitzroy Street, London, W.1, have placed a new size of Dr. Bengué's Balsam on the market, to retail at 1s. 3d.

ROBOLEINE.—Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C.4, announce a reduction in the retail and wholesale prices of the family size of Roboleine.

THE "CHARLOTTE" HOT-WATER-BOTTLE COVER is advertised in this issue—a reminder of the approach of winter—by C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, London, E.C.2.

LEMON SKIN TABLETS.—Particulars of a special bonus offer made by Milner & Coke, Ltd., 11 John Penn Street, London, S.E.13, on orders for their Lemskin Tablets will be found elsewhere in this issue.

COLOURED PHOTOGRAPHIC ENLARGEMENTS.—United Photographers, Ltd., Liverpool, Manchester, and Leeds, elsewhere in this issue give particulars of an offer of special interest to photographic chemists.

WEDGWOOD MORTARS are supplied by Josiah Wedgwood & Sons, Ltd., Etruria, Stoke on-Trent, who quote parts of a letter written to Josiah Wedgwood in 1780 by an Amsterdam chemist in their advertisement in this issue.

STANIFORM is the registered trade mark for methyl stannic iodide, a new therapeutic agent manufactured by Whiffen & Sons, Ltd., Carnwath Road, London, S.W., and which is put up in a series of pharmaceutical forms.

POUDRE BERTIMAY.—An announcement by Mr. W. L. Dreyfus, 40 Great Marlborough Street, London, W.1, regarding the introduction of Poudre Bertimay on the English market, will be found on another page in this issue.

BOOK ALMANACKS for distribution to customers are suggested as an advertising medium for chemists' specialities by the General Press, Ltd., almanack department, 32-36 Fleet Lane, London, E.C.4, who invite inquiries from subscribers.

COLTON MACHINES, available in a wide range for all pharmaceutical operations, may be obtained through the selling agents, John J. Griffin & Sons, Kingsway, London, W.C.2, who will send a catalogue on request to C. & D. subscribers.

A. & F. PEARLS, LTD., Isleworth, request us to state that the Christmas present gold box offer referred to in their advertisement on page 33 in our issue of October 6 was wrongly described as a three tablet offer. The offer is a six-tablet box and should prove a most attractive gift line.

ARNAUD'S POT POURRI.—Arnaud's Pot Pourri of Old English Flowers are advertised in this week's issue, the styles illustrated being "The Lantern Jar" and "Fruit

Basket Jar." These are filled with choice pot pourri and packed in artistic boxes. We have received a list showing the complete series printed actual size in colours, which will be sent out on request by Potter & Clark, Ltd., 60-64 Artillery Lane, London, E.1.

ARALYS POWDER AND CREAM.—Vinolia Co., Ltd., in order to induce customers to use Aralys cream in conjunction with Aralys powder and buy these together, have started a free gift offer for a limited period. This scheme is supported by an advertising campaign, and special cartons containing the powder and cream are made up. A coloured window or counter card has been prepared and is illustrated in our advertisement pages, where full particulars of the scheme are given.

SOUTHALL BROS. & BARCLAY, LTD., 19, 20, 21 Lower Priory, Birmingham, issue a special list of fancy goods particularly suited to the Christmas trade. A very attractive selection is offered. One of the most important of their specialities is the A1 cod-liver oil, and the show material which is supplied with it will make it possible to arrange a most attractive window show. The oil is made in their own Norwegian factory, and each bottle bears a certificate for vitamin content of the Pharmaceutical Society.

Trade-mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1928, p. 329.

(From "The Trade Marks Journal," September 26, 1928.)

- "GLEE"; for chemicals (2). By J. Bibby & Sons, Ltd., 21 King Edward Street, Liverpool. 493,996. (Associated.)
- "MOSQUIL"; for insect destroying preparations (2). By Attock Oil Co., Ltd., 6 Fenchurch Avenue, London, E.C.3. 494,210.
- "LEGUVA"; for medicinal chemicals (3). By A. Wander, Ltd., 184 Queen's Gate, London, S.W.7. 492,998. (Associated.)
- "RAYGLO"; for medicinal chemicals (3). "SECTO"; for goods (47) and (50). By Cupal, Ltd., King Street Bridge, Blackburn. 493,213; 487,031/032. (Associated.)
- "GELAMON"; for medicinal chemicals (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 494,183.
- "TY.PHOO"; for food substances (42). By Sumner's Ty.Phoos Tea, Ltd., 8-10 Castle Street, Birmingham. 492,126. (Associated.)
- "PINNACLE"; for acid pyrophosphate of soda (42). By Watson & Philip, Ltd., 20 South Union Street, Dundee. 492,993.
- "PLASMONTA"; for food substances (42). By Plasmon, Ltd., 66A Farringdon Street, London, E.C.4. 493,231. (Associated.)
- "ERNALDÉ"; for hair preparations (48). By Ernardé, Ltd., 239 Regent Street, London, W.1. 491,108.
- "REGESAN" over figures "99" ("99" disclaimed); for perfumery, etc. (48). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 492,923. (Associated.)
- "THINC"; for toilet preparations (48). By Thinc Products, Inc., 41 East 42nd Street, New York, U.S.A. 493,084.
- "JASYN"; for all goods (48). By Jarvis & Co., 6 Percy Street, Tottenham Court Road, London, W.1. 494,542.
- "VELVEX"; for face cream containers or tubes made from synthetic resin (50). By A. E. J. De Couet, Sunridge Mansion, Bromley, Kent. 492,834.

(From "The Trade Marks Journal," October 3, 1928.)

- "FROBENO"; for chemicals (1). By J. R. Geigy Société Anonyme, 51 Riehenring, Basle, Switzerland. 491,971. (Associated.)
- "QUADRALENE"; for chemicals (1). By Derby Chemicals, Ltd., 11 Iron Gate, Derby. 493,862.
- "TYLAMMON"; for all goods (1). By Adler-Farbenwerke und Chemische Fabrik A.G., 50 Herkules Strasse, Essen, Germany. 494,489.
- "REGESAN"; for chemicals (2), medicinal chemicals (3) and for food substances (42). "REGESAN MORNING POWDER" ("Morning Powder" and "M.P." disclaimed); for health salt (3). "REGESAN" over figures "99" ("99" disclaimed); for medicinal chemicals (3). "REGEFRICE"; for perfumery, etc. (48). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 489,460 /461/469; 492,915/922; 489,455. (Associated.)

Births

Notices for insertion in this column must be properly authenticated.

BROOKS.—On October 7, the wife of Henry Brooks (representative of Suttley & Silverlock, Ltd.), 33 Umfreville Road, London, N.4, of a son.

Marriages

BOOTH—BYRNE.—At St. Mark's Church, Blackburn, on September 20, Norris H. Booth, chemist and druggist, to Clarice E. Byrne.

ECCLES—TAYLOR.—At Emmanuel Church, Oswaldtwistle, on September 19, Emeric Alfred Eccles, chemist and druggist, Union Road, to Alice Taylor.

HODGE—POLLEY.—At St. Michael's Church, Stockwell, London, S.W.9, on October 7, Sydney Walter Hodge, M.P.S., to Kathleen Vera Polley.

MAINS—MILL.—At Newhaven Parish Church, on October 3, by the Rev. D. S. Johnston, B.D., assisted by the Rev. J. M. Webster, B.D., Carnock, and by the Rev. R. G. Agnew, Clackmannan, John Anson Mains, L.R.C.P., L.R.C.S.E., The Bogue, Creetown, Kirkcudbrightshire, son of the late Dr. J. H. Mains, Clackmannan, and Mrs. Mains, Ivybank, Carnock Road, Dunfermline, to Maisie Ferme Westwater Mill, M.P.S., late Bangour Hospital, younger daughter of Mr. and Mrs. W. Westwater Mill, Granton, Edinburgh.

REDFEARN—SCHOFIELD.—At High Street United Methodist Church, Huddersfield, on October 3, Harold W. Redfearn, chemist and druggist, to Edith A. Schofield.

SMITH—PALMER.—At All Saints' Church, King's Heath, Birmingham, recently, John Reginald Smith, chemist and druggist, to Gwendoline Palmer.

Deaths

ARMATAGE.—Suddenly, at the home of his brother, Ayton, Berwickshire, on October 3, Mr. Robert James Gibson Armatage, chemist and druggist, 6 Broadway, Cricklewood, London, N.W.2, aged forty-four years. Mr. Armatage was apprenticed with Duncan, Flockhart & Co., Princes Street, Edinburgh. He afterwards had many years' experience with Lewis & Burrows, Ltd., before commencing business on his own account at Cricklewood, in 1919. Mr. Armatage leaves a widow and five children, the eldest being an apprentice in pharmacy.

BARLOW.—Recently, the wife of Mr. Joseph A. Barlow, chemist and druggist, Manchester Road, Burnley.

BRIERLEY.—At Stocksfield, on September 7, Mr. Herbert Charles Brierley, chemist and druggist, aged fifty-nine.

COOKE.—Recently, Mr. Charles Fowler Cooke, chemist and druggist, West Street, Boston, aged seventy-three.

HEWLETT.—At Frankton, Lower Northdown Avenue, Cliftonville, on October 3, Mr. James Hewlett, chemist and druggist, aged seventy. Mr. Hewlett was apprenticed to the late Mr. Charles Kitching, Oakengates, and gained further experience in Cambridge and London. He was in business successively at West Norwood, Beckenham and Margate, and in 1909 was president of the Isle of Thanet Chemists' Association.

JONES.—At Llanstinan, on September 26, Mr. Gwilym Jones, retired chemist and druggist, aged forty-eight. Mr. Jones was at one time in business in Regent Street, London, W.1.

LEE.—Suddenly, on October 3, Arthur Lee, chemist and druggist, 5 Marton Road, Middlesbrough. Mr. Lee passed the Qualifying examination in 1899.

PAUL.—On October 2, Helena Katherine, daughter of the late Dr. Paul, formerly editor of the "Pharmaceutical Journal."

PATERSON.—At a nursing home in London, on October 3, John William Patterson, Ph.C., late of 23 Ferndene Road, Herne Hill, S.E., aged forty-nine.

Personalities

MR. PERCY BACKHOUSE, Midlands and South Yorkshire representative of The Medical Supply Association, Ltd., has been appointed senior representative to the company.

MR. R. C. WREN, senior director of Potter & Clarke, Ltd., London, E.1, is the subject of an appreciative biography in "The Medical Herbalist" for the current month.

At a recent meeting of the Merthyr Tydfil Pharmaceutical Committee Mr. V. A. Wills, J.P., was appointed chairman, Mr. H. M. Lloyd treasurer, and Mr. E. J. Powell secretary, for the ensuing term.

FASSETT & JOHNSON, LTD., have recently appointed two new representatives. Mr. T. G. Hughes, who has taken over the Yorkshire and North-Eastern section, is the son of Mr. Ll. Hughes, chief London representative, who has been with the house for many years. Mr. W. B. Robertson will assist Mr. R. A. Christie on Scottish territory.

At the Degree Congregation of Reading University, on October 2, the degree of B.Sc. *ad eundem* was conferred on Mrs. D. F. Middleton, B.Sc. Hons. (Lond.), A.I.C., lecturer on botany in the pharmaceutical department of the Chesterfield Technical College, the only daughter of J. R. D. Barfoot, F.B.O.A., chemist and druggist, 69 West Bars, Chesterfield.

COUNCILLOR HENRY M. LLOYD, J.P., Merthyr Tydfil, was elected president of the Welsh Association of Insurance Committees at Llanelly on October 5. Since the inception of the Insurance Act in 1912 he has been actively identified with its administration, and was chairman of the Merthyr Insurance Committee in 1926. Mr. Lloyd was also elected president of the South Wales and Monmouthshire Association of Ophthalmic Opticians lately.

Wills

MR. RICHARD HARRY HEWARD, of Middlesex, of Messrs. R. W. Heward & Co., surgical appliance manufacturers, Crown Road, left estate of the gross value of £2,199 19s. 2d., with net personalty £2,089 8s. 2d.

MR. GEORGE ELMITT, of 200 High Street, Lincoln, chemist and druggist, of Kemp and Elmitt, a prominent Freemason, who died on July 23 last, left estate of the gross value of £13,578 3s. 5d., with net personalty £2,770 6s. 6d.

MR. FREDERIC JACKSON, of South Parade, Bawtry, Yorks., chemist and druggist, who died on July 27 last, left estate of the gross value of £6,634 19s. 11d., with net personalty £6,602 10s. 11d.

MRS GERTRUDE JANE CROSFIELD, of Woodland Court, Chesham Bois, Bucks., and formerly of Warrington, Lancs., who died on July 19 last, widow of John Crosfield, of Warrington, left estate in her own disposition of the gross value of £147,831 8s. 10d., with net personalty £141,227 17s. 8d.

MR. GEORGE DIXON CROZIER, of Gargrave Road, Skipton, Yorks., chemist and druggist, carrying on business in High Street, Skipton, a member of the Parish Council, who died on August 1 last, aged sixty-two years, left estate of the gross value of £3,757 2s. 11d., with net personalty £2,718 9s. 7d. Probate of his will has been granted to his widow, Ada Crozier, of 26 Gargrave Road, aforesaid, the sole executrix.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated

B/310. Brass pestles and mortars	C/910. Puma insecticide
B/810. Chlorodenta tooth paste	C/910. Quil disinfectant
C/910. Faulk's cement	B/310. Safeguard clinicals
L/210. Isophenal	T/610. T.O.C. liquid cotton for repairing cotton fabrics
G/310. Kemsol brand iodised iodine	

Observations and Reflections

By Xrayser III

Mr. Herbert Skinner

was happy in his remarks at the Pharmaceutical Society's anniversary dinner (*C. & D.*, October 6, p. 438), and I was particularly interested to note that he, like myself, gives first place in the beneficial results of the Pharmacy Act, 1868, to its unifying effect. Whilst, however, I wrote a fortnight ago about the union resulting from the hammering together of the diverse elements which were combined to form the class of chemists and druggists, Mr. Skinner was more directly concerned with the linking up of the chemists and druggists with the Pharmaceutical Society. This is quite an admirable point, because the Society consisted prior to July 1868 of pharmaceutical chemists only, with assistants and apprentices. It is significant, by the way, that the preamble to the 1868 Act refers to chemists and druggists as persons other than those keeping open shop for the retailing, dispensing, or compounding of poisons, and asserts that it is expedient for the safety of the public that both classes should possess a competent practical knowledge of their business. Anyone asked today to describe the business of a chemist and druggist would almost certainly include the dispensing of medicines as part of the description. Add to that the sale of scheduled poisons and we have the two main planks of the platform upon which our business has been built up. But, if one were pressed to enumerate all the functions assumed, at one time or another, by chemists and druggists in Great Britain, it would be difficult to make the list exhaustive.

Mr. R. R. Bennett

managed to give a distinct air of freshness to the matter which constituted his address on pharmacy as a career (*C. & D.*, October 6, p. 427), and he can be heartily congratulated on the soundness of the advice he gave to pharmaceutical students. His quotation from Marcus Aurelius was particularly apt, and I should be glad if both practising pharmacists and students could be made to realise as a matter of course that the appropriate test of the value of any reform or privilege they hanker after is not whether it will benefit themselves, but whether it will be for the general good of pharmacists as a whole. Post-graduate study and research benefit both the individual and the pharmaceutical community, because they help to raise the importance of the chemist and druggist's business in the public estimation. Aiming at the enhancement of our status, and educating public opinion, may also be included in the list of things that are good for the whole of us, as well as for those who direct the aim and participate in the work of education of the public.

Flattering Imitation

is suggested by the paper read at the recent conference of secretaries of grocers' institutions (*C. & D.*, October 6, p. 425), in view of the fact that the author appears to have drawn very largely upon our records to enforce his proposal that registration of grocers should be brought into being. Thus, we find reference to the historic meeting of chemists in London in 1841, when the Pharmaceutical Society was founded, also a quotation from Bell and Redwood's "Progress of Pharmacy," and talk of obtaining a charter of incorporation and setting up a school. More, the copying of our standard of qualification is mooted, and the making it a statutory offence for anyone other than a properly trained and duly certificated craftsman to term himself a registered grocer. Surely there must be something of special value in our arrangements for training and qualification if, after sixty years, they are represented as suitable models to copy. Incidentally, it will be noted that those attending the conference where the registration of grocers was discussed were secretaries of grocers' institutions. It may be worthy of consideration if there should not, at times, be a conference of secretaries of chemists' institutions.

The Reopening

of the numerous schools of medicine is usually seized upon by the gentlemen who give the inaugural addresses as an opportunity for contrasting the past with the present. In the case of schools of pharmacutics this is not the case, because I suppose they are too few and too recent in origin and, perhaps, because, as a speaker at a banquet last week intimated, the "how and the when" of the sudden appearance of the pharmacist is not sufficiently well authenticated. The alchemist doubtless was the forerunner of the chemist, and his association with the practice of medicine is largely due to the influence of Paracelsus and his followers. The apothecary, in the sense of being the compounder and purveyor of medicines, mineral, animal and vegetable, preceded the druggist and the pharmacist. His history, however, is much more ancient than that of the chemist. He was part of the scheme of things in the days of Pliny the Elder, but he was then called by another name—*seplasia* or *seplasiarius*—a compounder of ointments. The reference to him by Pliny under this name is so unmistakable that Philemon Holland (1601) translates it "apothecary." A uniformly good character has not been borne by these useful, even if sometimes apparently greedy, members of the community. In those Roman times they were regarded as being necessary to the physicians, we may say indispensable to them; but they were distrusted by the patients.

Pliny's Account

of their relationships would perhaps serve for many succeeding years, at all events down to the eighteenth century, if we may believe the many derogatory things said about them by their enemies when they were said to be encroaching on the territories of their patrons. Pliny wrote:—"Howbeit, Physicians in these daies (with reverence to their profession and with their good leave be it spoken) are ignorant wholly of all these things; yea, and the greater part of them bee not so much as acquainted with the tearms and bare names (so farre be they from the true composition of medicines): and yet in times past it belonged properly unto Physicians for to be acquainted with the tearms of all simples and to be perfect in the knowledge of them. But our Physicians in this age, when they are to make any composition of simples, they have recourse straightwaies to their books to be directed by them, that is to say, they trie experiments by the hazard of their poore patients; and there finding the names of this and that, they set down a receipt, and for the making thereof trust the Apothecaries, as also for the ingredients; which commonly they doe sophisticate and corrupt by all deceitfull means that possibly they can devise; selling their emplastres and collyries that are old made, and such drugs as are past all goodnesse, serving the bills of the Physicians with the verie refuse of their shop. And thus the deceitfull wares that they have, they rid their hands of, to the discredit of the physician and danger of the sicke." The vigour of Holland's translation seems to be due to his appreciation of the aptness of Pliny's picture as a representation of the unworthy apothecaries of his own day.

Pigmentarius,

medicamentarius, and *pharmacopola* were other designations employed by Roman authors for drug vendors. To-day we should class them as druggists. Galen's name for his store of medicines was *σποθήκη*, and is the Greek origin of our apothecary. But in the intervening time the storekeeper gradually became the compounder, the elaborator of medicines, the indispensable satellite of the physician, without which the latter could not maintain his equilibrium in his orbit of service. We are told that by the time of Avenzoar, that is in the twelfth century, the professions of physician, surgeon and apothecary were separated; so much appears from his writings. How the apothecary became a general medical practitioner and left his duties as a compounder of medicines to be carried out by the pharmacist is a story of modern times.



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Editorial Articles

Veterinary Research

TOWARDS the end of 1923 a department of animal pathology was inaugurated at the University of Cambridge, and early in the following year Mr. J. B. Buxton, F.R.C.V.S., who had been appointed to the Chair of Animal Pathology, submitted a scheme for the provision of permanent accommodation and temporary maintenance. As a result, a capital sum of £34,000 was sanctioned for buildings, land and equipment, together with an annual grant of £10,000 for maintenance and a graded staff of research workers, so that the Institute is the largest and best equipped of its kind in the country. The work of the Institute consists primarily of investigations into diseases of farm animals, and in order that effect may be given as economically as possible to this procedure, liason is maintained with veterinary practitioners, agricultural organisers and stockowners. In addition, a department has been created which deals entirely with routine diagnosis of pathological material sent in by veterinarians and stockowners. An important feature of the Institute is its mobile section. In order that investigations may be carried out upon premises at which an outbreak of disease has occurred, a motor laboratory has been built and equipped in such a way that while capable of speed and mobility in difficult places, it provides all the necessary facilities

for prolonged field investigations. A review of the development and activities of the Department of Animal Pathology during the years 1923 to 1928 has lately been issued, and it is clear that not only is the work becoming more and more appreciated by owners of animals, but that given financial backing and opportunity, the veterinary profession can carry out research the results of which will prove of inestimable value to the health and wealth of the nation. The investigation into the reliability of the tests usually employed for the detection of tuberculosis in cattle, especially the subcutaneous test, and the possibility of devising a method which should be at least as effective as those already in use and less subject to non-specified influences had been begun in 1922, by the Tuberculin Committee of the Medical Research Council, of which Professor Buxton was a member. After the Institute was started the carrying out of many experiments in order to determine the efficiency of the proposed new double intradermal test was continued by the staff of the Institute. In 1924 a large-scale experiment was undertaken at the Metropolitan Cattle Market, London, and the result fully justified the expectations as to the value of the new test, for it indicated correctly the presence or absence of tuberculosis in 98 per cent. of cases. In 1923, as the result of experiments carried out on behalf of the Tuberculin Committee, several investigators found that the potency of tuberculin used for the

TUBERCULIN TESTS

detection of tuberculosis in animals varied considerably. Having established the efficacy of a double injection of tuberculin in determining the reaction of the tissues of a tuberculous animal, a method was devised whereby one or several tuberculins of unknown value could be compared for potency with two tuberculins of known strength ("standards") in the same animal. It is now possible by this means to ensure that tuberculin of adequate potency is employed for testing purposes, and the Institute has defined a "standard" for such tuberculin. In collaboration with a member of the scientific staff of the Medical Research Council, a member of the Institute's staff carried out an investigation into the types of tubercle bacilli which may be responsible for tuberculosis in swine. It was found that in this country, as had been observed in the United States of America, an appreciable portion of cases of tuberculosis were due to the avian type of the bacillus, although the greater number were caused by the bovine type. This observation was of considerable importance, since it is a common practice to run pigs over ground which has carried poultry, and in view of the frequent occurrence of tuberculosis in domestic fowls the danger of infection of the pigs should be appreciated. Following upon the work of Calmette and Guérin, in which attempts have been made to protect children and animals against tuberculosis, experiments are being carried out with a view to determining if calves can be immunised by means of the B.C.G. vaccine (Calmette and Guérin) so as to withstand a suitable test dose of virulent bovine tubercle bacilli. So far as the experiments have gone there is evidence to show that some degree of immunity is developed. Various observers have described experiments by which it has been shown that certain preparations of the tubercle bacillus were capable of passage through fine porcelain filters, and an investigation along these lines is being carried out at the present time. Owing to the enormous annual loss suffered by flock-owners as a result of a number of diseases which cause high mortality among their sheep, an endeavour has been made to elucidate some of these hitherto neglected diseases. Braxy is caused by *vibrio septique*, and, as the result of experiments which had for their ultimate object the active immunisation of animals against infection with this and a closely allied organism *Bacillus*

chauvæi, it was found to be possible during 1924 and 1925 to produce a very high degree of resistance in sheep to the disease. A modified method of vaccination was tried

last year. Eight thousand animals in Northumberland were treated with apparently satisfactory results. This

method has the advantage over all previous methods in that only one injection of the material is necessary—an important point in the practical application of treatment to large numbers of semi-wild animals. Twenty-five years ago a Commission was appointed to inquire into epizootic abortion of cattle and sheep. As a result of their labours the nature of the disease and the causal agent in sheep were described. During the earlier investigations into sheep diseases carried out by the staff of the Institute, it was found that in certain of the Eastern Counties the annual loss occasioned by premature birth of lambs was a very serious matter. The disease presented features which in several respects differed very definitely from those described by the Commission, and it was therefore decided that it should be investigated. At an early stage in the inquiry it was ascertained that the causal agent described by McFadyean and Stockman, working for the Commission, was not present, and later an organism of the paratyphoid group was found to be responsible for this variety of disease. It was shown later that susceptible animals could be protected successfully against infection, both experimentally and under natural conditions. A subsequent observation, which was of far greater practical importance, was the fact that infected ewes rarely aborted a second time, so that in infected areas instead of discarding diseased animals it was found to be advisable to retain them in the flock and to immunise any fresh susceptible ewes that might be brought in. Further, a blood test was devised by which it was found to be possible to differentiate between diseased and susceptible animals. The study of this disease was also of considerable interest from the point of view of comparative pathology, for, as is well known, outbreaks of paratyphoid infection in man occur fairly frequently, and are usually regarded as being due to infection from a human "carrier." It is possible, however, that in some instances infection may actually originate from an outbreak of disease in the lower animals, such as that which has been described. Still more recently another form of contagious abortion of ewes has been investigated. As in the case of the paratyphoid "B" infection, animals appear to acquire a considerable degree of immunity and rarely abort a second time. A further important observation is that the male is able to transmit the disease, and that the causal organism is present in his blood and liver. This discovery makes it reasonable to assume that in the case of other bacterial diseases in which the male has been suspected of transmitting the infection, but since such transmission was thought to be of a purely mechanical nature or associated with disease of the reproductive organs, the hypothesis has been discarded, he may, indeed, be an important factor in the spread of the disease. If this should prove to be the case, and evidence in support of the idea is accumulating, many hitherto obscure factors will be explained. During the past three years an endeavour has been made to determine the causal factor or factors associated with mastitis of ewes. Continental workers have described a contagious agalaxia of sheep and goats due to an ultra-visible virus. So far it has not been possible to confirm these findings in the material which has been obtained in this country. In one instance only has there been reason to suspect that such a virus was present, but, in view of the very great variety of organisms which have been isolated from different cases of the disease, the possibility of a common primary cause such as an

ultra-visible virus, has not been overlooked. During the past three years an investigation has been made of joint-ill or polyarthritis of lambs. It is highly probable that several distinct types of organisms are capable of setting up the disease once they have become established in the animal's body. It is known that this is true in the case of foals, in which the disease has received more attention. Four outbreaks of the disease in lambs have been definitely shown to be due to a streptococcus, and in one the bacillus of swine erysipelas was found to be responsible. In three of the four outbreaks in which the streptococcus was found there could be no doubt that infection occurred after birth by way of the umbilicus, but in the fourth outbreak some of the lambs were visibly ill when born, and showed swellings of the joints within a few hours of birth. There was no evidence of umbilical infection. Further, a streptococcus which was identical in all respects with that isolated from the joints of the affected lambs, was recovered from the uterus of one of the ewes whose lamb had died of the disease. The uterus itself was found to be diseased. This outbreak was of special interest since it strongly suggested that infection may in some cases at least take place before birth. Pustular stomatitis is a disease characterised by wart-like excrescences on the lips and noses of lambs, and possibly upon the mammary gland of ewes which are suckling infected lambs. In view of the virus hypothesis which has been associated with the causation of various neoplasms of man and the lower animals, this work is of considerable importance in the study of comparative pathology. It has been found that susceptible animals can be rendered immune to the disease by inoculation of the desiccated material containing the virus. The parasitic infections of the lower animals are probably responsible for heavier annual loss to stockowners than any other disease. This is particularly true of the stomach and intestinal worms of sheep which produce a severe gastro-enteritis, which, if it does not always cause the death of the animal, renders it practically valueless. Many remedies have been suggested from time to time, and during the past three years there has been an investigation of the remedial value of an enormous number of drugs. Many heavily infested sheep of all ages have been kept at the Institute and treated with courses of the various well-known remedies, as well as with a number of new substances. So far, no really satisfactory treatment has been discovered, and many popular remedies have been proved valueless. Experiments have also been undertaken with a view to determining the efficacy of some proprietary sheep dips in the treatment of scab or mange of sheep. In 1924 it was decided to make a survey of the protozoa normally present in the intestinal canal of domestic herbivora. It was thought possible that under normal conditions balance might be maintained between the protozoa and intestinal bacteria of certain kinds, while, as a result of some pathological conditions this balance might be upset and have some bearing upon the changes observed. This alteration in balance was, in fact, established, but owing to the fact that it was found to be possible to "cultivate" some of the protozoa, notably *Balantidium coli*, *in vitro*, and the far-reaching effects that this might have upon experimental chemo-therapeutic observations, it was decided to pursue this investigation. The results fully justified the change in programme. This work was, however, discontinued in 1927. A number of diseases of pigs have been investigated. The most important, owing to the extent of its ravages in the Eastern Counties, is swine erysipelas. In 1923 there was no known means of checking the disease except by the use of an immune serum. The serum was not prepared in this country, was difficult to obtain, and varied very considerably in value. The earliest work undertaken by the Institute was an attempt to prepare an immune serum of high potency, and in

such a manner that the life of the horse from which the serum was prepared was not endangered by the use of living organisms. It was found that a potent serum could be produced in a few months from horses by the injection at certain intervals of cultures of the swine erysipelas bacillus which had been rendered harmless to the horse by chemical means. The use of this serum was most successful in checking the spread of the disease in herds of pigs. During the year 1923-24 eighteen litres

DISEASES OF PIGS

of the serum were prepared and distributed for experimental purposes. During the following year 7,300 doses were distributed. As a result of the demand created by the successful use of this serum it can now be obtained from commercially in this country. Since the use of serum is limited to the treatment of animals in which the disease has occurred, or to those which are in contact with them, an attempt has been made to devise a means of inducing an active immunity by means of a vaccine, and so prevent the disease making its appearance in a herd. Hitherto, protective inoculation practised on the Continent has consisted of the simultaneous injection of culture of the living organism and immune serum. This method is very unsatisfactory. It not infrequently happens that pigs develop the disease as a result of the inoculation, or that the immunity which is produced in them is insufficient to afford a solid protection against subsequent infection, even when this takes place a few weeks later. Experiments have therefore been carried out in which the culture of swine erysipelas bacilli has been chemically treated in such a way that, while it is incapable of producing the disease, its antigenic properties are not interfered with. Laboratory experiments with this material have proved entirely satisfactory, and it is now being tried under field conditions. During the past year an attempt has been made to augment the facilities for team work by the development of a biochemical laboratory within the department, and a number of important investigations are at present being undertaken, including a study of the metabolic, pathological and nutritional effects in sheep of rations containing excess of protein. An investigation is also being carried out regarding the mechanism of cellulose digestion in ruminants, in the course of which it has been found that a cellulose splitting organism, isolated from manure, is capable of producing glucose as an intermediate product in the breaking down of cellulose. There is reason to believe that most of the cellulose is absorbed into the animal body in this form, thus supporting Kellner's view that "for fattening purposes digestible fibre and digestible carbohydrate possess equal values." A series of experiments are in progress with a view to determining the normal amount of calcium, phosphorus, potassium, sodium and chlorine in the bones of young pigs. Very little appears to be known concerning the presence of these substances, and it is thought possible that the information which is being obtained may throw some light on the cause of death in very young pigs.

NUTRITIONAL DISEASES

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Ecuadorean Condurango

CONDURANGO is indigenous to Ecuador but also grows in other parts of South America. Ten different plants are known in Colombia as condurango. During the fifteen-year period 1911 to 1925, exports of condurango from Ecuador varied from 1,000 to 104,000 kilos., valued at from 517 to 60,360 sucres. (The present value of the sucre is approximately 10d.) The principal countries to which Ecuador exported condurango were the United States, Germany, France, Great Britain and Japan. Exports for the ten years ended 1925 were approximately as follows:—To United States, 89,062 kilos.; France, 6,677; Germany, 59,711; United Kingdom, 34,312; and Japan, 9,540 kilos.

The Minister of Health at the Birmingham School of Pharmacy

IN the presence of a large audience, on October 4, Mr. Neville Chamberlain, M.P. (Minister of Health), formally opened the new school of pharmacy at the Birmingham Central Technical College and presented the prizes to students in the pharmacy classes. The chair was occupied by Councillor R. H. Hume, of the Birmingham Education Committee. The pharmacy department has been recently reorganised, and contains a well-equipped dispensary, materia medica museum, manufacturing and testing laboratory, research laboratory, and biological laboratory. The college is officially recognised by the University of London for the purpose of training for the Intermediate and Final examinations for the degree of Bachelor of Pharmacy, and by the Pharmaceutical Society for its various examinations.

COUNCILLOR HUME, in opening, observed that this interesting occasion coincided with the Diamond Jubilee of the passing of the Pharmacy Act. It seemed rather remarkable that only 60 years ago anybody could sell any poisons with the exception of arsenic. He thought pharmacists should make every effort to prevent any change in the control.

Dr. W. E. SUMPNER (Principal of the College) said it was a matter for the greatest satisfaction that so important a development as the establishment of a School of Pharmacy, as a separate department of the College, had taken place. The equipment of the school had been greatly enlarged and improved, and he paid tribute to the work of Mr. H. Berry (Head of the Pharmacy Department).

Mr. H. BERRY read a report on the last two years of the work of the Pharmacy School, in which he pointed out that it was not possible to hold the usual meeting last session owing to the alterations then being carried out. The school was entering upon its tenth session. In his last report in 1927 he stated that, with the concurrence of the Birmingham Pharmaceutical Association, it had been decided to devote two years to the training for the Preliminary Scientific and the Qualifying examinations, although the regulations of the Pharmaceutical Society permitted a minimum of one year until 1929, when all schools must provide a two-years' course. In order to meet the needs of the increased training in the chemist and druggist course, several important alterations were carried out. They included the equipping of a pharmaceutical manufacturing and testing laboratory, to provide facilities for a course in practical pharmacy on a semi-wholesale scale and the testing of the products; the establishment of a materia medica museum and laboratory; a pharmaceutical research laboratory; and a new botanical and biological laboratory. Mr. Berry added that arrangements had been made with the University of Birmingham to provide a certain course of instruction in bacteriology for the advanced students. As to prizes, a feature was the establishment of a gold medal for competition in the advanced course. The medal was to be designed to perpetuate the memory of Mr. A. W. Gerrard, whose work in pharmaceutical research earned him a great reputation. The giving of the medal in perpetuity had been made possible through the generosity of members of the Gerrard family and the firm of Cuxson, Gerrard & Co. Mr. Berry warmly acknowledged the co-operation of Dr. Friend, the head of the chemistry department, and his staff, and Mr. Coultas, of the physics department, and his staff.

The prize winners (to whom books were handed by Mr. Chamberlain) were:—

Session 1926-27.—For Chemist and Druggist Course.—Presented by Birmingham Pharmaceutical Association: silver medal and books to value £5, Mr. J. P. M. Wren; bronze medal and books to value £2 10s., Mr. L. C. Wright. President of the Pharmacy Students' Association (Mr. G. D. Horton): dispensing, Miss I. A. Jessop; pharmacognosy, Mr. H. Harvey.—Preliminary Scientific Course.—Messrs. Squire & Co.: all subjects, Miss K. M. Chapman. Thomas Chase, Esq.: botany, Mr. R. A. Eccleshall; botany, Miss C. B. Bell.

Session 1927-28.—Chemist and Druggist Course.—Birmingham Pharmaceutical Association: silver medal

and books to value £5, Mr. W. R. Worsley; bronze medal and books to value £2 10s., Mr. G. D. Gibson. President of the Pharmacy Students' Association: dispensing, Mr. G. T. Jones.—Preliminary Scientific Course.—Messrs. Squire & Co.: all subjects, Mr. A. E. Williams. Thomas Chase, Esq.: botany, Mr. A. E. Williams; botany, Mr. D. J. Hughes. C. J. Woodward Memorial Fund: chemistry, second year, Mr. H. F. Allen; third year, Mr. A. W. R. Freeman and Mr. B. Turner. John Levick, Esq.: Grove prize, botany, Mr. B. S. Bowley; college: all subjects, Mr. B. S. Bowley.

MR. CHAMBERLAIN'S ADDRESS

MR. CHAMBERLAIN, in his address, said this was the first opportunity he had had of opening a school of pharmacy. With a due sense of the importance of such a development he was delighted that the opportunity should have fallen to him in his own city of Birmingham. On hearing that the new school of pharmacy was being added to the other resources of the Technical College he made inquiries as to how it had come about. He had been interested to learn that the school was really a product of the war, inasmuch as it began with certain classes in pharmacy which were established by the Pharmaceutical Society in conjunction with the Ministry of Labour for ex-service students in 1919. Those classes were conducted for about three years, during which time some 150 students were trained. The work had since been continued, and the school had been officially recognised by the Pharmaceutical Society. The next development appeared to have been the step taken by the University of London, when they established a degree in pharmacy, and the school in Birmingham, in order to enable its students to qualify for that degree, undertook the necessary extensions and improvements. With the establishment of its new laboratories and the separation of the school into a department of pharmacy, it might now be said there was offered to the students every possible facility for training in all branches of pharmacy, and with the co-operation of the Birmingham University, who were making provision for a bacteriological course, they would be able to take their stand with the students in any other school in the country. Briefly tracing the history of pharmacy from the day of the apothecary in the Middle Ages to the present time, Mr. Chamberlain said it was not until 1868 that the Pharmacy Act was passed, which made it illegal for anybody except chemists and druggists to sell poisons. In very recent times there had taken place a great development in the life of the nation, which had had a profound effect upon the practice of pharmacy. Of course, as Minister of Health, he should always be naturally interested in the work of pharmacists, which must have a very important bearing upon the general health of the public; but that interest was multiplied very much by the fact that under the National Insurance Act there had been such an enormous increase in the amount of prescribing that was taking place throughout the country. "What that increase has been," continued the speaker, "it is impossible to say, because we do not know what number of prescriptions used to be made up before the passing of the Act in 1912. But I can tell you this, that last year some 9,000 chemists in different parts of the country dispensed no fewer than 54,000,000 prescriptions under the National Health Insurance Act. If you promise not to tell anybody I will whisper to you as a great secret what they get for it. (Laughter.) The bill for these millions of prescriptions amounted to upwards of £2,000,000. If we could translate the 54,000,000 of prescriptions into tons of drugs and gallons of medicine I think we should have some figures that would startle you. I do not know if the people took all the medicines—(laughter)—but if willingness to take them is any measure of health then I should think we must be the healthiest people in the world. We cannot ask them whether the medicines did them any good, but I suppose they thought so because certainly there does not seem to be any sign of a falling off in the demand."

THE PHARMACIST'S RESPONSIBILITIES

There was one thing, Mr. Chamberlain continued, they could ask, and to which they could get an answer, and that dealt with the accuracy of the dispensing. Considering the enormous number of chemists engaged in the work, it was a remarkable and highly creditable fact that upwards of 96 per cent. of the 4,000 samples which were taken last year turned out to be correct. That, at any rate, showed that the pharmacists took their duties seriously, recognising that they had a great responsibility and duty to the public. Mere accuracy in carrying out prescriptions was not all that was expected to-day from pharmacists. It was recognised by the pharmacists themselves that a pharmacist who really was living up to the standards which had been set for themselves must have a real scientific knowledge of the nature and the substance of the articles in which he was dealing. The science of pharmacy, like all other sciences to-day, was not standing still. Only in the last few years they had had preparations like salvarsan, insulin, liver extract, thyroid extract and other gland extracts. They had had the great series of vaccines and similar substances which were new to science and were intensely potent—so potent that if they were not handled with the most exact and scrupulous care might easily effect serious, perhaps even a mortal injury, upon the patient. That was an additional reason why the pharmacist of to-day should be much more than a mere clerk, why he should be a man with genuine scientific attainment who was able to realise not merely the power for good but the power for evil of the articles in which he dealt, and would make himself acquainted with the dangers as well as the opportunities that lay in front of him. In 1925 Parliament passed the Therapeutic Substances Act, and it was a significant circumstance that the Advisory Committee which was set up in order to assist in making the regulations for the manufacture, importation and sale of these substances included a member appointed by the Pharmaceutical Society. That was a tribute to the position which that Society had attained in the estimation of Parliament and in the scientific world. It indicated also how the Society was constantly striving to raise the standards of its members, and to fulfil the responsibilities which must necessarily be upon them. It was a satisfaction to know that in Birmingham, thanks to the school, the students would have an opportunity of acquiring those standards and of entering upon their career fully equipped at every point. He noticed that in an address given the previous day by the chairman of the British Pharmaceutical Conference, he remarked casually that perhaps it could hardly be said as yet that the occupation of pharmacist received sufficient material recognition. That recognition was bound in the long run to be measured by the value of the services they gave to the community, and what that value should be lay largely in their own hands. The higher the standards they set, the more difficult it was to attain them, the greater the knowledge they brought to the practice of their profession, the higher their scientific attainments, the higher must be their status, and the respect in which they were held by the public. (Applause.)

A vote of thanks was accorded Mr. Chamberlain on the proposition of Mr. F. H. FODEN (president of the Birmingham Pharmaceutical Association), seconded by Captain E. C. Bennison (past-president). The latter deplored the commercialism which, he said, had come into the profession of late years, as instanced by the great stores and emporia which traded in stationery, cheap jewellery and ironmongery in the name of chemists. It must be, however, some small comfort to the Minister of Health to know that, hidden somewhere behind the scenes in those great emporia, was a scientifically trained man who looked after the medical department. Mr. Chamberlain was presented by a girl student, amid loud applause, with a cardboard model of a municipal house, which bore the inscription, "This is the house that Neville built." Among the chemists present were Mr. Peck, Mr. Knowles, Mr. F. Smith, Mr. H. Buckingham and Mr. Thonger.

THE EXPORTS of lime juice from British Guiana from January 1 to July 31, 1928, were 5,473 gallons.

Golfing Events

THE London Chemists' Golfing Society held their last meeting of the season at Hartsbourne Manor Golf Club on September 30. The competition was for a prize presented by the De Vilbiss Co., and was won by the president, Mr. H. Ingram-Royle. The leading scores were:—

H. Ingram-Royle	... 94—14 80	R. A. Daniel	... 86—4 82
D. M. Rees	... 86—5 81	W. E. Cane	... 101—18 83
J. Jones	... 92—11 81	J. W. Quibell	... 100—14 85
		J. Deas	... 101—13 88

At the close of play, the captain, Mr. J. Forbes, entertained a party of members in the billiard-room, where he explained to them how he might have won the billiards championship, while in the refreshment department a party were shown by the vice-captain, Mr. J. W. Quibell and Mr. Percy Trick how they might have won the golf championship.

Festivities

A Coming of Age Dinner

THE directors and executive staff of Wigglesworth, Ltd., Westhoughton, were the guests of the firm's representatives at a function at Parker's Restaurant, Manchester, on September 29. Mr. J. MacPhee, senior representative, in proposing the toast of the firm on behalf of the outdoor staff, said he wished to express their very sincere regard and appreciation of the relationship that existed between the directors, the indoor staff and themselves. He also desired to use the occasion to wish the firm many happy returns of its coming of age. Mr. J. W. Wigglesworth, in responding, referred to some of his early difficulties and problems. At the end of twelve months he had 150 accounts, and it was a source of much satisfaction to him to know that many of those chemists were to-day amongst his best customers and friends. In looking back over the past twenty-one years, apart from the satisfaction in the persistent growth of the firm, the many friendships he has made with clients and the staff were an additional source of pleasure to him. Mr. Morley, North London representative, proposed "The Guests," which was responded to by Mr. J. A. Wolfendale (secretary). At the conclusion of the toasts, the representative staff showed their abilities in musical entertainment, which concluded a happy evening.

Associations' Winter Session

Cambridge.—The quarterly meeting of the East Anglian Federation of Pharmacists and Group Executive of the R.P.U. was held on September 27 at Cambridge. Prior to the meeting a visit was paid to Magdalene College, where the party were shown the Pepys Library by Mr. V. Vernon Jones. St. John's College was also visited. At the meeting the chair was taken by Mr. P. Robinson (Norwich), in the absence of the president, Mr. S. G. Tydenian. An address was given by Mr. C. Smalley (Ipswich), in which he said he thought it was time chemists should realise what the R.P.U. meant to them. He appealed to local organisations to stimulate more enthusiasm for the R.P.U. Mr. Smalley also dealt with questions.

West Kent.—At the annual meeting, held on October 2, of the West Kent Pharmacists' Association, at Bromley, Mr. Cyril B. Snow was elected *President* in succession to Mr. Wallace Pring, and Mr. E. G. Price *Vice-President*. Mr. Pinchen and Mr. Pring, 32 The Broadway, Bromley, Kent, continue in their respective offices as *Treasurer* and *Secretary*. The treasurer announced a substantial balance in hand, and proposed that a cheque for five guineas be sent to the Benevolent Fund of the Pharmaceutical Society. This was agreed to. A committee was formed and a programme arranged for the new session. The annual dinner will be held on November 28, at the Royal Bell Hotel, Bromley, Mr. J. E. French, chairman of the R.P.U., to be the principal guest.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42, Cannon Street, E.C.4, October 11

AMONG pharmaceutical chemicals, business is moderate only, the chief alterations in value being an advance in calcium lactate. Hexamine and paraformaldehyde are easier; acetanilide is steadier, and resorcin is unsettled. Cadmium salts are dearer. In crude drugs business is dull. Russian ergot to arrive is easier. Cartagena ipecacuanha is scarce on the spot, but Matto Grosso is plentiful. Menthol is quieter. Cloves are again higher and pepper is cheaper; shellac is steady. Essential oils have been in very poor demand, so that many alterations involving the shading of values are noted in our table below. On the other hand, star anise, geranium and lavender are firmer. In the industrial chemicals group business continues in no way active, the bulk of reports from the various centres indicating quiet conditions. Barium chloride remains firm and in short supply; cream of tartar is unsettled; acetone is firm and active, and sal ammoniac is easier. Copper sulphate is firmer on improved export demand. Among the fixed oils, palm is firm and active; linseed is much steadier and turpentine is slightly easier; rape oil is firm and dearer, while Hankow wood is strong on "shorts" covering. In "outside" articles mercury is cheaper from the combine.

Higher	Firmer	Easier	Lower
Cadmium salts Calcium lactate Caraway seed (Dutch)	Anise oil, star Copper sulphate Cotton oils Geranium oils Lavender oil Linseed oil Rape oil	Cassia oil Ergot (Russ., c.i.f.) Hexamine Lemongrass oil Paraformaldehyde Peppermint oils Sal ammoniac Wax, veg. (Jp.)	Bergamot oil Butyl chloral hydrate Galls (Ch., c.i.f.) Maize starch crystals, (Dutch) Mercury Patchouli oil Pitch Saffron Wintergreen oil
Cloves Honey Palm oils Rubber Wood oil (Hankow)	Steadier Acetanilide		

Crude Drugs, etc.

AGAR-AGAR is steady at 4s. 6d. per lb. for No. 1 Kobe on the spot, and new crop for January-March shipment is quoted at 4s. 1d. per lb. c.i.f. from second-hand sellers, 4s. 4d. c.i.f. being quoted from first-hands.

ALOES.—The exports from the Union of South Africa during June was 61,957 lb. (£520), against 34,956 lb. (£270) in June 1927. For the six months ended June 30, 1928, the exports were 520,834 lb. (£4,356), against 397,330 lb. (£2,865) for the corresponding period of 1927.

ANTIMONY has a firm undercurrent for Chinese, chiefly due to the strong attitude of shippers, but business on the spot is quiet on the basis of about £40 per ton, and c.i.f. terms for shipment may be called about £39, which is an average quotation. English refined on the spot varies from about £56 up to £60, according to brand and quantity.

BALSAMS.—Tolu is now worth 3s. 10d. to 3s. 11d. per lb. on the spot for good bright. Canada is quoted at 6s. 3d. per lb. spot. Copaiba is scarce at the source and on the spot 1s. 8d. is wanted for B.P. Peru is 6s. 9d. per lb. for genuine of direct import.

BUCHU.—The exports from the Union of South Africa during June amounted to 13,693 lb. (£602), against 13,069 lb. (£583) in June 1927; the exports for the six months ended June 30, 1928, were 111,805 lb. (£4,652), against 97,815 lb. (£4,184) for the corresponding period of 1927.

CADMIUM.—There is unrelaxed firmness, while comparatively little is actually available on the spot, and incoming supplies are quickly absorbed. Current quotations for spot are 3s. 3d. to 3s. 4d. per lb., but business can be done to arrive at considerably less. Australian agents seem to have enough to do to keep their regular customers going. Fair quantities have lately arrived from Australia. There is

but little Canadian coming this side, the bulk being absorbed by the United States.

CALUMBA.—The landings in London during September were nil, and the deliveries 85, leaving a stock of 1,037, against 1,533; and landings to date have been nil, against nil last year, and the deliveries 538, against 1,680 last year.

CASCARA SAGRADA.—The landings in London during September amounted to 12 tons and the deliveries eight tons, leaving a stock of 304 tons against 286 tons; landings to date have been 113 tons against 84 last year, and the deliveries 149 tons against 68 last year.

CHAMOMILES.—New crop Belgian are in steady demand at from 22s. to 23s. per cwt. for first pickings, according to colour.

CLOVES.—Zanzibar are strong and dearer, with spot sales at from 1s. 1½d. to 1s. 2d. per lb. For shipment August October has been sold at 1s. 2d. c.i.f., and October-December at 1s. 0½d. to 1s. 1½d. per lb. c.i.f. The landings of Zanzibar in London during the week ended October 6 were 250, and the deliveries 99, leaving a stock of 4,182, against 11,107 in 1927 and 9,764 in 1926. From January 1 to October 6, 1928, the landings of Zanzibar have been 13,319, against 16,033 in 1927, and the deliveries 16,818, against 12,527 in 1927.

COCOA BUTTER is quoted at 1s. 7d. per lb. on the spot for C.F.R., and prime English at 1s. 5½d., in not less than one-ton lots.

COD-LIVER OIL is unchanged with sellers at from 150s. to 156s. per barrel c.i.f. London for finest new non-freezing Lofoten oil. Business is fairly steady as some of the Norwegian makers are not sellers at the lower prices.

DRAGON'S BLOOD.—The landings during September were 32 and the deliveries seven, leaving a stock of 178, against 175; the landings to date have been 96, against 98, and the deliveries to date 75, against 98 last year.

EGG PRODUCTS.—Dried Chinese yolk is quoted at 1s. 9½d. per lb. on the spot, and September-October shipment 1s. 9d. c.i.f. Sprayed is 2s. 2d. spot, and September-October shipment is 2s. 0½d. per lb. c.i.f. Prime Chinese hen albumen is 2s. 3d. spot, and September-October shipment 2s. 0½d. c.i.f. London.

ERGOT remains quiet with Russian offering at the easier rate of 1s. 5d. per lb. c.i.f.; on the other hand, 3s. c.i.f. is asked for Spanish; spot values are unchanged.

GALLS continue neglected. Bagdad blue are quoted at 70s., green at 60s., and white at 50s. per cwt. on the spot. In Chinese, business has been done at 53s. c.i.f. for plum shaped, being cheaper. The London stock of Bagdad galls is 1,421, against 1,164; landings to date have been 617, and deliveries 357 bags.

HONEY has been in more demand and is dearer. Good to fine Jamaica, 50s. to 60s. per cwt.; brown to pale amber, 44s. to 48s., and dark, 40s. to 42s. 6d.

IPECACUANHA is quiet. Matto Grosso is quoted at 10s. to 10s. 3d., Minas at 10s., and Cartagena is scarce at 12s. 6d. per lb.

The landings in London during September were 10 Matto Grosso and the deliveries 58, leaving a stock of 375, against 195 last year. The landings of Matto Grosso to date have been 380, against 223, and the deliveries to date 246, against 157 last year. There were no landings or deliveries of Minas, Cartagena or East India in September.

MAGNESIUM.—There is a regular steady demand for the current home output, with small ingots and sticks selling at 4s. to 4s. 3d. per lb., and powder remains at 5s. 6d. to 6s. 6d. per lb., according to quality and quantity.

MASTICH.—The spot values are from 2s. 6d. to 2s. 7d. per lb. on a quiet market, with small stocks.

MENTHOL has been quieter, with spot sales of Kobayashi-Suzuki at 25s. per lb. and sellers. For shipment August-September and September-October shipment is quoted at 22s. c.i.f., October-December at 22s. 6d., and January-March at 22s. c.i.f.

MERCURY.—The news received in the latter part of last week that the joint selling office of the Combine opened in Lausanne was quoting on the basis of £21 15s. f.o.b. naturally resulted in an adjustment of the spot prices, which had been unduly inflated owing to a nervous feeling as to the attitude of the Combine. The f.o.b. price given above is somewhat under the figure which was ruling when f.o.b. offers were some time ago entirely withdrawn from the market. The market has been gradually lowered to a considerable extent from the recent highest. The nearest quotations for fair sized lots on the spot range from £23 5s. to £23 10s. per bottle, less the customary discount. The demand has been hesitating, but we have heard of good orders having been placed, amounting together to roughly 1,000 bottles, chiefly for the United States, Hongkong and China, on terms approximately equivalent to the first-hand price f.o.b. There is a little more stability in the market at the current level, but there is no great faith as to whether

further concessions might not be made through the selling office. This, of course, depends upon the progress of the demand and the extent to which stocks at the mines have been reduced within the last few months.

MYRRH.—The landings in London during September were nil and the deliveries 15, leaving a stock of 78, against 62; the landings to date were 128, against 101, and the deliveries 155, against 157 last year.

OLBANUM continues firm on account of the small spot stock. Fair to good pale drop is quoted at 80s. to 100s., garblings at 45s. and good clean siftings practically free from quartz at from 57s. 6d. to 60s. per cwt.

The landings during September were 33 and the deliveries 53, leaving a stock of 267, against 380; the landings to date were 182, against 265, and the deliveries to date 294, against 290 last year.

PEPPER has been active at lower prices for forward shipment, with spot prices practically unchanged. Fair black Singapore is 1s. 5d. per lb. on the spot, and October-December shipment 1s. 4s. c.i.f. Lampong is 1s. 5d. spot; August-October shipment has been sold at from 1s. 4½d. to 1s. 3½d. c.i.f. and October-December at 1s. 4½d. to 1s. 3½d. c.i.f. Tellicherry is 1s. 6½d. spot; January-March shipment has been sold at 140s. to 137s. c.i.f. Alleppy is 1s. 6d. spot, and January-March shipment has been sold at from 138s. to 135s. c.i.f. White Muntok is unchanged at 2s. 2d. on the spot. To arrive, the sales include August-October at from 2s. 0½d. to 1s. 11d. c.i.f., and October-December at 1s. 11½d. to 1s. 10½d. c.i.f.

PIMENTO is quiet at 11d. per lb. spot, and for October-November shipment sellers quote 97s. per cwt. c.i.f.

PLATINUM.—While the quotation of the leading home refiners is still pegged at £17 per oz. for refined, outside competition has been more active, and orders can be placed at £16 10s. down to £16 per oz.

RUBARB.—The landings in London during September were 24 and the deliveries 18, leaving a stock of 285, against 85 last year; the landings to date have been 300, against 214, and the deliveries 287, against 329 last year.

RUBBER is ½d. per lb. better on the week. Business during the past few days has been quite good, and there has been a continuous flow of orders from various directions. America has been a large buyer, not only of spot rubber, but has placed several contracts for direct shipment from Singapore, at above the present market parity. This sudden spurt is mainly due to the very small shipments from the East over the past month. Arrivals last week amounted to 1,057 tons, whilst deliveries were 3,004 tons, showing a further substantial decrease of 1,947 tons on the week. The London stock now stands at 29,525 tons, against 70,167 tons at the corresponding period last year. This latter total represented the highest point the stocks attained last year, and it is interesting to note the comparative figures of the present stocks. Quotations (Wednesday 5 p.m.) No. 1 standard ribbed smoked sheet spot and October, 8½d.; November-December 8½d.; January-March, 9½d.; April-June, 9½d. per lb.

SAFFRON.—The crop in Spain has turned out better than was anticipated, and as a result the position is easier at 50s. to 55s. per lb., according to grade, on the spot.

SARSAPILLA.—The landings in London during September were 17 and the deliveries 13, leaving a stock of 113, against 115 last year; the landings to date have been 241, against 177, and the deliveries 242, against 322 last year.

SEEDS.—There is very little demand and prices remain unchanged. **ANISE.**—Spanish is 60s. and Russian 28s. per cwt. on the spot. **CANARY** remains firm; Mazagan 18s., and business has been done at 17s. 10½d. c.i.f. for November shipment. **SAFFI** has been sold at 17s. 6d. spot and at 17s. to 17s. 3d. per cwt. c.i.f. **CUMIN.**—Maltese is 54s. spot and 50s. c.i.f. is quoted for shipment. Morocco is 45s. on the spot and 45s. c.i.f. **CORIANDER** is 21s. spot and 19s. is being asked for forward shipment. Russian is 21s. 6d. spot. **FENUGREEK.**—Morocco is 16s. 6d. spot and forward is quoted at 15s. 9d. **HEMP.**—Manchurian is 19s. 6d. spot. **LINSEED.**—Mazagan is 19s. 6d. spot and 18s. for November shipment. Morocco is quoted at 17s. 6d. c.i.f. **MUSTARD.**—English is 27s. spot. **FENNEL.**—Indian is very scarce on spot, and for a c.i.f. parcel 62s. per cwt. c.i.f. has been paid. **CARAWAY** is dearer at 37s. 6d. per cwt. c.i.f. for Dutch for prompt shipment.

SENEGA is quoted at from 5s. to 5s. 1d. per lb. on the spot, and at 4s. 11d. per lb. c.i.f.

SHELLAC is steady, usual standard TN orange quality closing at 227s. 6d. per cwt.; fine orange is 235s. to 320s.; pure button, 247s. 6d., and AC cakey, 235s. To arrive TN for August-September shipment. September-October, and October-November is quoted at 210s. c.i.f. For delivery the sales include October at 219s. to 221s. 6d., and December 210s. to 215s.

WAX (VEGETABLE) is quiet at 80s. per cwt. on the spot, and for October-December shipment 78s. 6d. c.i.f. is quoted.

Essential Oils

BUSINESS has been very dull and there is no active interest in any single item. Cassia, lemongrass and the peppermints are all slightly easier owing to lack of demand, and bergamot, patchouli and wintergreen are lower. On the other hand, anise, geranium and lavender are firmer.

ANISE (STAR).—"Red Ship" is firmer for shipment at 2s. 4d. per lb. c.i.f. in cases and 2s. 1½d. in drums. There are now no spot sellers under 2s. 5d. per lb.

BAY.—The spot value of the 50-55 per cent. phenols is 7s. 2d. per lb.

BERGAMOT is again lower at 22s. to 22s. 6d. per lb. on the spot as to seller. Prompt shipment is now quoted at 21s. 6d. c.i.f., with new crop offering at 21s. c.i.f.

CAJUPUT continues firm at 3s. per lb. on the spot.

CAMPHOR.—Japanese white in drums, duty paid, is quoted at 47s. 6d. per cwt. on the spot. Brown is worth 60s. per cwt. for the usual grade.

CASSIA continues to droop, and the spot value is now 6s. per lb. for quantities, with the shipment quotation at 5s. 1½d. c.i.f. for 80-85 per cent. c.a., free from alcohol.

CITRONELLA.—Ceylon on the spot is now worth 1s. 8d. per lb., and there are quotations of 1s. 6d. c.i.f. for shipment. Java on the spot is 1s. 10½d. per lb. and to arrive 1s. 10d. c.i.f. is the value.

CLOVE is firm at 7s. to 7s. 6d. per lb. as to quantity for 90-92 per cent. English distilled, but second hand parcels at less than this are still on the market.

EUCALYPTUS is in fair demand. Quotations on the spot are:—1s. 10½d. per lb. for 70-75 per cent., 2s. for the 75-80 per cent., and 2s. 2d. for 80-85 per cent.

GERANIUM.—The last cuttings of the year in Algeria have been a comparative failure, and it will be May before further distillations are possible so that producers are finding it difficult to execute orders. The value is very firm at 16s. 6d. per lb. on the spot. Sales of Bourbon at 21s. per lb. on the spot are now reported, and the position is very firm.

GINGER is quoted at 22s. per lb. on the spot for the ordinary quality.

LAVERDER.—In the Digne district the price paid for mountain flowers this year was from 70 to 80 frs., against 110 to 150 frs. paid last year. Cultivated plants fetched from 100 to 140 frs. per 100 kilos. The value of oil at the Fair ranged from 200 to 215 frs. per kilo. The injury caused by the drought to mountain plants, coupled with the absence of Italian labour this year, has, however, kept the value up, and the tone is firmer than it was just prior to the distillations. The spot price is firmer at 15s. 6d. per lb. for the 38-40 per cent. i.a.

LEMON is dull and neglected at 13s. to 13s. 6d. per lb. on the spot as to seller. The forward position is unchanged.

LEMONGRASS is slightly easier at 3s. 2d. per lb. on the spot and about 3s. c.i.f.

LIME.—The value of West Indian distilled on the spot has settled at 29s. per lb., with a firm undertone. Little business is being done.

NEROLI.—Stocks are much below normal, and as there is yet nine months to go until the next distilling season, an advance in the near future is probable. The demand is fairly active and the price firm at 45s. per oz. for the pure French Bigarade Petale, with cheaper prices according to quality. Italian is unchanged at about 75s. per lb. for genuine.

ORANGE.—For prompt shipment 18s. 6d. per lb. c.i.f. is quoted, with the spot value of good brands from 20s. as to seller. New crop is offered at 15s. 6d. per lb. c.i.f. for the best brands. A complete absence of demand is still prevalent.

PATCHOULI has been easing down for some time back and is now quoted at 22s. per lb. on the spot for ordinary Singapore quality. Workers who abandoned the growing of patchouli for the production of rubber at the time of the rubber boom are now returning to their former occupation, and this will gradually increase available supplies.

PEPPERMINT.—Japanese dementholised is slightly easier, with sellers at 8s. 3d. per lb. on the spot for Kobayashi-Suzuki. Shipment is quoted at 7s. 9d. per lb. c.i.f. for October-December and 7s. 9d. c.i.f. has been paid for January-March. American natural tin oil has been very quiet, and the values have eased down slightly. On the spot 13s. 9d. to 14s. 3d. per lb. as to brand is now quoted and for prompt shipment the range is from 13s. 6d. to 14s. c.i.f. H.G.H. is quoted at 19s. per lb. on the spot and 18s. c.i.f.

"Drug Markets," September, 1928, state that "... the size of the carry over in U.S. and the condition of the new crop do not give justification for the price being where it is to-day, and practically all the factors in the market look for declines as the new oil starts coming through in quantity. However, peppermint was successfully maintained at a price during the past year, and it may happen again. It is most likely that the price throughout the coming year will be somewhat below present levels."

SASSAFRAS.—Natural American is unchanged as quoted at 3s. 9d. per lb. c.i.f. and 4s. 3d. on the spot.

SPEARMINT is scarce at 19s. 6d. per lb. on the spot.

VETIVER.—Bourbon in original bottles is quoted at 21s. 6d. per lb. on the spot.

WINTERGREEN is slightly lower at 7s. 6d. per lb. on the spot for genuine sweet birch.

WORMSEED (CHENOPodium) is unchanged at 10s. 6d. per lb. c.i.f. and about 12s. on the spot.

WORMWOOD.—Spot supplies are almost bare and much interest is shown in the forward position as quoted at 50s. per lb. c.i.f.

Pharmaceutical Chemicals, etc.

ONE or two changes of interest are recorded this week. Calcium lactate is moving up to higher rates. Hexamine is being cut and paraformaldehyde is slightly easier. Cadmium salts are dearer. Business generally has been only moderate, there being nothing like active markets to report.

ACTANILIDE is steadier as quoted at 1s. 4½d. for large parcels; ordinary lots of B.P. crystals and powder, 1s. 5d. to 1s. 6d. per lb.

AMIDOPYRIN is easy on a dull market at 7s. 9d. to 8s. per lb.

ASPIRIN.—Prices are being maintained at from 2s. 3d. to 2s. 6d. per lb., as to quantity, with the usual business passing, the bulk of it being done by British makers.

BENZONAPHTHOL is unchanged, on spot in five-kilo. parcels, at 2s. 10d. per lb.; market quiet.

BISMUTH SALTS show no change: carbonate, 9s. 9d.; subnitrate, 8s. 3d.; salicylate, 8s. 9d. per lb., in cwt. lots.

BROMIDES are about unchanged, while the volume of business is rather under average: dealers quote ammonium, 1s. 11d.; potassium, B.P. crystals, 1s. 7½d.; granular, 1s. 7d.; sodium, B.P., 1s. 10d. per lb., for quantities in cases. British makers' list prices are: ammonium, 1s. 11½d. to 2s. 1d.; potassium, B.P., 1s. 8½d. to 1s. 9¾d.; sodium, B.P., 1s. 10½d. to 2s. per lb., as to quantity.

CADMIUM SALTS.—Owing to the advance in cadmium metal the makers have been compelled to advance prices of the salts as follows:—

	List per lb.	7 lb. per lb.
Cadmium acetate, anhydrous ..	s. d. 6 0	s. d. 5 9
„ bromide ..	5 3	5 0
„ carbonate, pure ..	7 1	6 7
„ chloride, cryst. ..	4 0	3 9
„ „ anhydrous ..	5 0	4 9
„ hydrate ..	7 9	—
„ iodide ..	17 0	—
„ nitrate, pure cryst. ..	3 7	3 4
„ sulphate, pure ..	4 9	4 6
„ sulphide ..	7 0	—

CALCIUM LACTATE shows an advance on the week in consequence of higher prices from the Continent: spot is now at about 1s. 2½d. for a large parcel; one or two cwt. 1s. 2½d.; small parcels, 1s. 3d. and upwards.

CHLORAL HYDRATE.—Duty-paid crystals continue steady but quiet at about 3s. 1½d. to 3s. 3d. per lb.

CITRIC ACID (B.P. crystals).—There is nothing new to report. The market is still very short of supplies and prices are nominal at from 2s. 9d. per lb., less 5 per cent. for foreign crystals: Continental makers are still off the market.

CREOSOTE (B.P.) continues unchanged but quiet at 1s. 8d. to 1s. 8½d. per lb.

CREOSOTE CARBONATE is dull: dealers quote from 5s. 10d. to 6s. per lb.

GUAIACOL CARBONATE is seldom called for: quoted on spot from 4s. 6d. to 4s. 9d. per lb.

HEXAMINE.—A further slight reduction in prices for free-running crystals down to 1s. 10½d. per lb. is recorded; small parcels, about 2s. per lb.

HYDROQUINONE is steady at the agreed prices of 3s. 7½d. to 4s. 6d. per lb., as to quantity.

LACTIC ACID (B.P.) is unchanged at the Convention rates of 1s. 6½d. to 1s. 10½d. per lb., as to quantity.

METHYL SALICYLATE (B.P.) continues steady with a fair business moving: quoted from 1s. 4d. to 1s. 6d. per lb.

METHYL SULPHONAL is slow of sale: spot is offered at about 8s. 9d. per lb.

MILK SUGAR.—Dutch is quoted at 55s. per cwt. ex stock, London.

PARAFORMALDEHYDE is unsteady at from 1s. 7½d. to 1s. 8½d. per lb. for 100 per cent. powder; some offers are down to 1s. 7d. for quantities in kegs.

PARALDEHYDE is quiet and unchanged: quantities, in carboys, 1s. 1d.; small lots, in bottles, 1s. 3d. per lb.

PHENACETIN is still quoted at 2s. 4d. to 2s. 6d. per lb., with slightly less being taken for important business.

PHENAZONE.—With business by no means brisk it is becoming difficult to maintain the quoted rates of 3s. 9d. to 3s. 11d. per lb., owing to keen competition.

PHENOLPHTHALEIN is quoted at the Convention prices of 5s. 11d. to 6s. 1½d. per lb., while a fair proportion of the business is being placed outside the group.

POTASSIUM PERMANGANATE.—B.P. continues steady but quiet: quantities in drums from 5½d.; small parcels, from 6d. per lb.

RESORCIN continues unsteady at 2s. 10d. to 3s. per lb.; big business would be done at slightly less.

SALICYLIC ACID (B.P.) is steady at 1s. 3d. to 1s. 6d. per lb. as to quantity; business is limited.

SALOL is steady at the controlled prices: two-cwt. lots, 2s. 3d.; one cwt., 2s. 4½d.; 56 lb., 2s. 5d.; small parcels, 2s. 6d. per lb.

SANTONIN.—The following are the official prices of santonin: lots of 50 kilos., £52 10s. per kilo.; 25 to 49 kilos., £53 10s.; 10 to 24 kilos., £55; five to nine kilos., £57; three to four kilos., £58; one to two kilos., £60 per kilo., net cash. Buyers of 50-kilo. lots are guaranteed against a fall in prices in respect of stocks of goods purchased directly from the official agents, and remaining unsold up to two months from date of invoice; this guarantee is given for one month to buyers of 25 kilos. All buyers, when reselling quantities of one kilo and upwards, are bound to adhere to the above scale of prices and terms of sale and to reimpose the same on all subsequent buyers except in countries where imposition of fixed prices is prohibited by law.

SODIUM BENZOATE (B.P.) is quiet and the quoted prices are inclined to be easy: quantities in two-cwt. barrels, about 1s. 7½d.; cwt. lots, about 1s. 8d.

SODIUM DIETHYLENEDITHIOURATE is dull at about 7s. 10d. per lb. on the spot.

SODIUM SALICYLATE (B.P.)—There is no further reduction in prices but business of any size is only secured at bottom rates: crystals, from 1s. 7d.; powder, from 1s. 6d. per lb., for quantities in cases.

SULPHONAL is about steady on a quiet market at from 6s. 6d. per lb.

TANNIC ACID.—B.P. *leviss* continues steady, with quantities in kegs from 2s. 10d. per lb.; small parcels, from 3s. to 3s. 3d. per lb.

TARTARIC ACID (B.P. crystals) is featureless, with spot offers of foreign at about 1s. 4d. to 1s. 4½d. per lb., less 5 per cent.

TERPIN HYDRATE continues to be offered in quantities to come forward from 1s. 5d. per lb.; market dull.

THYMOL is very quiet: fine white synthetic is worth about 9s. 6d., or a shade less, per lb.

VANILLIN (100 per cent. from cloves) is slow of sale at about 16s. 6d. to 17s. per lb.

Industrial Chemicals, etc.

London, October 10.

THE market for industrial chemicals continues in no way really active, most reports to hand commenting upon the generally quiet conditions prevailing. Barium chloride is very firm on a short market. Cornish arsenic remains quiet and at low prices. Acetone is firm on an active market.

ACETIC ACID is in fairly brisk demand for small-sized business: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66 per ton, in glass demijohns; glacial, in barrels, £56 per ton, ex store.

ACETONE is in good demand forward at firm rates: B.G.S., ten-ton lots, £74 10s.; five-ton lots, £75 10s.; one ton, £76 10s.; under one ton, £77 10s. per ton, in drums, ex store.

AMMONIA (ANHYDROUS) is meeting with the usual small spot business: 99.95 per cent., 9d. to 11d. per lb., in loaned cylinders, carriage paid; slightly less for big contracts.

AMMONIUM CHLORIDE is steady but dull: grey galvanising, £21 5s. to £21 10s. per ton, in casks; ex store; slightly less for contracts.

ARSENIC.—Business has been quiet but the tone is steady, sellers asking £16 10s. to £16 15s. per ton for 99 per cent. white Cornish, Mexican high-grade, c.i.f. Liverpool, is mentioned at about £17.

BARIUM CHLORIDE continues very firm, with supplies on spot and to come forward short and at high rates: spot, 98 to 100 per cent. prime white crystals, £10 10s. and upwards; forward, £8 10s. f.o.b. Continent.

BLEACHING POWDER continues a competitive market from £6 12s. 6d. to £7 per ton, carriage paid, for 35 to 37 per cent. available chlorine.

COBALT.—The quotation for metal is retained officially at 10s. per lb., but concessions are being made under that figure for good quantities; black oxide powder is 8s., and grey 8s. 10d. per lb.

COPPER SULPHATE is firmer and the export demand seems improving: the larger makers are quoting about £25 5s. to

£25 15s. for casks f.o.b., less 5 per cent., according to quantity.

CREAM OF TARTAR remains slow and unsettled: supplies are offering from about 93s. to 94s. per cwt., less 2½ per cent., for foreign 99 to 100 per cent. powder.

FORMALDEHYDE.—The business moving is being keenly competed for, and for big orders the usual price of 40 per cent. by volume of £37 per ton is being shaded.

FORMIC ACID continues slow, but prices for 85 per cent., in carboys, are steady from £46 to £46 12s. 6d., ex store, as to quantity.

ISOPROPYL ALCOHOL is irregular; recently, owing to the advance in acetone, some sources advanced their prices to about 12s. per gallon; there is, however, some material, probably imported, offering at about 10s. 9d., and a shade less for large quantities.

OXALIC ACID continues in moderate demand on a steady market: quantities from £29 15s. to £30 per ton ex wharf; single cwt., 33s. ex store.

POTASH CAUSTIC continues at the Convention prices, with the market quiet: spot, 88 to 92 per cent. solid, less than one ton, £36 15s.; one to five tons, £33 5s.; five to ten tons, £32 15s. per ton, in drums, ex store; 30s. per ton, less c.i.f., in all cases.

POTASSIUM CARBONATE is steady, with a moderate business moving: 90 to 92 per cent., £25; 96 to 98 per cent., £26 per ton, in casks, ex store; slightly less for contracts.

POTASSIUM CHLORATE remains very quiet: quantities to arrive from 2½d. ex wharf; small spot parcels, from 3½d. to 3½d. per lb. ex store.

POTASSIUM PERMANGANATE (B.P.) is steady, but business remains poor: quantities in drums, from 5½d. to 5½d. per lb. ex store.

POTASSIUM PRUSSIAN is steady and business is fairly good: quantities, from £63 10s. to £65 10s. per ton, in casks: single casks, 7d.; small parcels, from 7½d. per lb. ex store.

SAL AMMONIAC is slightly easier and the market has been generally quiet: dog-tooth crystals, £30; medium, about £28 10s.; fine white crystals, £18 per ton, in casks, ex store; slightly less for contracts.

SODIUM ACETATE is firm, with supplies very short: quoted at fully £21 per ton, in casks, ex store.

SODIUM CHLORATE is dull: quantities to arrive, from 2½d.; spot parcels, from 3d. to 3½d. per lb. ex store.

SODIUM HYPOSULPHITE is steady but not in much demand: dealers quote pea crystals from £15 to £15 2s. 6d. per ton, in one-cwt. kegs; commercial, £9 10s. per ton, in casks, ex store. British makers quote pea crystals to home consumers on contract at £15 per ton, carriage paid to buyer's station.

SODIUM NITRATE is quoted for various deliveries up to June next year at the prices mentioned last week.

SODIUM PRUSSIAN is steady but still rather quiet: quantities from 4½d.; small parcels, about 5d. per lb. ex store.

SULPHUR.—The tone is well maintained, with a moderate demand for American crude quoted at £5 12s. 6d. to £5 17s. 6d., and Sicilian flowers are £12 7s. 6d., £11 for refined ground, and £9 15s. for roll, all c.i.f. to arrive.

COAL-TAR PRODUCTS, ETC.—Pitch is the only article to show any change on the week, with a further fall in value, and the market remains quiet. Other items are quiet, but prices are being maintained. ANILINE OIL is unchanged on a quiet market: from 8d. per lb., packages extra, carriage paid. ANILINE SALT is steady from 8d. per lb., packages extra, carriage paid. BETANAPHTHOL is unchanged at from 10d. per lb., carriage paid. CARBOLIC ACID (CRYSTALS).—A good business is passing and supplies for prompt delivery, apart from druggists' requirements, are very scarce: 6½d. to 7d. per lb. is still basis price for 39° to 40° C. crystals. CREOSOTE OIL remains quiet: ex works, 6½d.; f.o.b., about 7½d. per gallon, in bulk quantities. CRESYLIC ACID.—There is much more material available: to-day's prices are as follows: pale, 2s. 5d. per gallon: refined, 2s. 10d.; and pure cresylic acid, 4s., naked at works. NAPHTHALENE continues dull, with imported flakes and balls at about £16 10s. per ton, in cases, ex wharf. METHYL ALCOHOL is fairly busy, with spot prices at about £45 per ton, in drums, ex store; much cheaper prices for large quantities to come forward. PYRIDINE is dull and nominal at about 5s. per gallon f.o.b. TOLUOL is steady but rather quiet: commercial 90's. 1s. 7d. to 1s. 8d.; pure, about 1s. 10d. to 1s. 11d. per gallon at works. XYLOL remains slack: commercial, about 1s. 7d.; pure, about 1s. 9d. per gallon at works. PITCH shows a further reduction in prices at about 40s. per ton f.o.b. East Coast: the market is still quiet.

Fixed Oils, etc.

ONE or two bright features are recorded this week. Palm oils are firm on an active market. Linseed oil is much steadier and brighter, while turpentine is quiet and easier on the week. Wood and rape oils are firm and dearer. ACID OILS are steady, with prices partly

recovered: coconut and/or palm kernel, 37s.; ground nut, 32s.; soya, 27s. 6d. spot. CASTOR continues dull at unchanged prices: pharmaceutical, 49s.; first pressings, 44s.; second pressings, 41s. 6d. per cwt. spot, in barrels, in not less than one-ton lots. COCONUT has been quiet but is fairly steady: deodorised, spot, 46s.; Ceylon, 42s. 6d. c.i.f.; Cochin, 52s. 6d. c.i.f. COTTON.—Prices for all grades show a slight advance, with the market closing quiet: deodorised, 41s. 3d.; common edible, 39s. 3d.; soapmaking, 37s. 3d.; crude, 33s. 9d. spot. GROUND NUT is easier and dull: deodorised, spot, 47s.; crude Oriental, 42s. c.i.f. PALM KERNEL is steady but quiet: deodorised, 45s.; crude, 40s. spot. PALM shows a sharp advance in all grades; business has been active and the market closes firm: Lagos, 39s. 3d.; softs, 38s. 9d.; mediums, 38s. 9d.; hard, 39s.; bleached, 41s. 9d. spot. RAPE continues firm at slightly higher rates on the week: refined, 45s. 9d.; crude, 43s. 9d. spot. SOYA is quiet and unchanged: deodorised, 38s. 6d.; crude, 34s. 6d. spot. LINSEED (raw, naked).—A slight appreciation in values for all positions is recorded and the market is firm but quiet; on spot, 29s. 9d.; October, 28s. 7½d.; November-December, 28s. 7d.; January-April, 28s. 9d.; May-August, 29s. 3d. Boiled oil, spot, 32s. 6d. Hull, on spot, 29s. 7½d.; October, 29s. 7½d.; November-December, 29s. 7½d.; January-April, 29s. 4½d.; May-August, 29s. 7½d. TURPENTINE.—There was an easier feeling at the close on Wednesday evening, spot being 42s. per cwt., November-December 42s. 6d., and January-April 43s. 9d. per cwt. London deliveries for last week were very good at 2,632 barrels, making a total since January 1 of 81,365 barrels, which compares with 94,266 barrels at the same period last year. Stocks were returned at 33,758 barrels, against 47,057 barrels the same date last year. Including the floats, the London visible supply made up at 41,733 barrels, against 49,562 barrels the same date last year. RESIN.—Trading was comparatively quiet, but the tone is steady at current prices, which stand as follows:—C.i.f. terms for prompt shipment: B 18s. 9d., D to K 19s. 1½d., M to N 19s. 7½d. to 20s. 7½d., W.G. 22s. 10½d., and W.W. 24s. Terms ex wharf are 9d. per cwt. more, but a high premium is paid for W.W., selling at 26s., due to scarcity. WOOD.—Hankow, in barrels, on spot is firmer at the higher price of 74s. 6d.; September-October shipment, 76s.; October-November 75s. c.i.f. OLIVE is quiet at 7s. 3d. per gallon, in barrels, for B.P. quality, ex wharf, London.

Quinine Trust Decree Accepted

THE consent decree in the United States Government's suit against the Dutch quinine monopoly was signed September 20 by counsel for the Dutch quinine manufacturers. It was accepted on the same day by Judge Francis A. Winslow in the United States District Court for the Southern District of New York. Upon the acceptance of this decree, the government's criminal suit and its action in admiralty were dismissed. The quinine seized in connection with the several actions in the anti-trust suit was released. The defendants to the "quinine trust" decree include all the quinine manufacturers of the world. They have all agreed to the government's conditions.

Drawback on Zanzibar Clove Duty

THE "Official Gazette" of the Zanzibar Protectorate for August 25 contains a Decree (No. 9 of 1923) which amends the "Customs Management Decree, 1926," by adding the following sub-section to Section 140:—

(2) Drawbacks of clove duty may be allowed in respect of cloves and clove stems used in the manufacture of clove oil vanillin to such an amount, in such manner and subject to such conditions and restrictions as may be prescribed.

The following clause is added as sub-section 2 to Section 144 of the above-mentioned Decree of 1926:—

(2) The person claiming drawback of clove duty shall make a declaration upon the claim that the goods in respect of which drawback is claimed were purchased and shipped by him to the order of the approved vanillin manufacturer or approved clove oil distiller specified.

The Decree is deemed to have become operative on July 1, 1923, and is to expire on June 30, 1929, unless prolonged by further enactment. The issue of the "Gazette" for September 1 contains "Government Notice No. 143," laying down the rules under which drawback of clove duty paid may be allowed on cloves which have been exported by the authorised agent of an approved vanillin manufacturer or of an approved clove oil distiller.

OPIMUM IN PRUNES.—United States Customs officials seized 2,100 tins of opium, weighing nearly 14,000 oz., and valued at \$54,600, on a pier at Honolulu after the departure of the Dollar Line "President Madison," in which the drug had been transported from the Orient in a shipment of prunes and vegetables.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

The Sale of Poisons

SIR,—In reply to "Xrayser III" (*C. & D.*, September 29, p. 405), I do not regard ourselves as "lost," but I still maintain that our only privilege is that one of selling poisons outside such as the agricultural poisons dealers sell, and I question very much whether the most of us could live on the profits we obtain from dispensing poisons. I shall always blame our Society for not taking up our cause many years ago and placing us on a status similar to what the General Medical Council place their members to-day. It could have been done, and still can be done, were a "Mussolini" to step forth from among us. All of us can remember what Sir William Glyn-Jones did for us, and now the P.A.T.A. is an institution. When a member will represent us in Parliament then there will be an opportunity for him to drive into the "House" what we are and what a convenience we are to the public, as well as rule out so many difficult encumbrances that we have lately been put under by people who know no more about qualifications and status than the ordinary man in the street. Take for instance the D.D.A. Was it not the duty of our Society to demand the why and the wherefor of a policeman being told off to examine our registers. Why were properly qualified chemists not given this important duty? Men who would understand positions, and where a mistake or oversight occurred there would be no necessity for the law courts. "Looker on" (*C. & D.*, September 29, p. 417), disagrees with the remark I made "that unqualified men can open shop." I still maintain that. By putting the name "Drug Store" above his door he can do it, but not necessarily sell or dispense poisons, and thereby encroach on a portion of our just due; of course, grocers encroach on our lines, but the only cure for that is to keep groceries, which, in my opinion, we are more able to sell knowing the manufacture, component parts, active principles, etc., of the foodstuffs and proprietaries grocers sell. I do not suppose one grocer out of ten thousand could tell what the active principle of tea is, or what constitutes margarine. There is no doubt about it our Society has left us in the lurch, and if "Xrayser III" can let me know what it has done in the last twenty years to raise our status I will be glad.—Yours, etc.,
Solo (6/10).

Courtesy

SIR,—During the last week or two I have applied for several positions as assistant or manager, all under a box number, and enclosing photograph and stamped addressed envelopes. In 90 per cent. of cases they have been returned without a memorandum of any sort to show from whom they came, or a note stating that the application has been unsuccessful. This appears to be a common failing with chemists applying for assistants, and no doubt many other assistants have experienced the same thing. After all, a box number way of advertising is not a nice one. Why the secrecy? Surely no chemist is ashamed of his name being inserted when applying for an assistant.—Yours, etc.,

FRATERNALLY DISGUSTED (10/10).

Insurance Dispensing Remuneration

SIR,—"Fair Play and Pay" (*C. & D.*, October 6, p. 445) has voiced the opinion that we are not getting a square deal. His opinion has been piped by others almost weekly in your columns ever since the discounting by the N.H.I. authority commenced. It is in vain that he points the finger at A. G. Gardiner, Gordon Ward or Graham Little. Their opinion to him or myself matters little; they look at this matter as it suits them. In vain does he cry for a David with sling and stone; there was no N.H.I. Act in the days of David. The doctor reaps the fruits of his organisation; whether he

deserves them is an entirely different matter. "Fair Play and Pay" only once touches the fringe of his problem when he says we must wake up. The fault is in ourselves; undoubtedly we have only the organisation which we have created, and we can only wonder if we do deserve what we have got. A sling and a stone can only knock down or destroy, but we must have plans and the organisation for the new building before we begin to scrap. Let "Fair Play and Pay" come into the open and assist in forming a body in which every qualified man is perforce a disciplined member, and then we will dub him King David, and he can cast his stone with some power to his elbow. To-day our leaders say they cannot speak or negotiate as representing solid pharmacy, they do not feel that they have the united support of the craft, and I say the fault is theirs, and it is also the fault of the rank and file; both complain and do "nowt." The only way to remedy present conditions is to bring in every man, and, if necessary, strike out for new powers, those we have proving inadequate. If 10,000 pharmacists who might read this letter, and agree with it, could be induced to send a postcard, bearing the single word "aye," and signed, our leaders as a whole would know there was a desire and a will to wake up, and to build anew, and the start would be made.—Yours faithfully,

S. C. BLORE, M.P.S.

Those Compulsory Hours

SIR,—In my opinion, the regulations governing the registration of apprentices are unreasonably rigid. They constitute a handicap to those in the country and present a problem, one side of which only has apparently been considered by the Pharmaceutical Society. Why should a certificate of so many hours' attendance at a certain school or schools be required of a youth if he has the intelligence and is well read enough to present himself for examination? I remain, sir, without the prospect of any more apprentices,—Yours truly,

SENEX (8/10).

The Pharmacy Act

SIR,—I cannot agree with "Xrayser III" when he says that the most important advantage of the Pharmacy Act has been the restriction of the use of the title "chemist and druggist" (*C. & D.*, September 29, p. 405). If the restriction had been confined to individuals, then it might have been so, but the 1908 Act, which enlarged the use of the term for the benefit of companies, did away with any advantages which might have accrued. It is open to any person who can afford to pay a qualified man to stand in his shop to call himself a chemist and druggist under the guise of a limited company, and so strained has the meaning of the name "chemist" become that any oilshop can buy a patent medicine licence, put a few proprietaries and drugs into stock, and advertise a chemist's department without interference, so long as they do not sell statutory poisons. As this part of the trade is negligible, and what there is is attended with so much risk that many chemists even do not care much about it, and as the dispensing done by most of us is National Insurance work, there is very little difference between the actual trade done by one of these shops and the *pukka* chemist. With regard to the exemptions to other vendors for agricultural and horticultural poisons, much the same argument applies; in a letter from a correspondent which you published recently he said that he was able to purchase potassium cyanide without any formalities from one of these exempted dealers, but a chemist would be unable to supply in such a haphazard fashion, and naturally the public, always irritated by so many irksome restrictions, make their purchases at the shops where they have the least bother. It is not exactly a question of shirking our privileges, but rather of not wishing to expose ourselves to unnecessary persecution. According to recent ruling, an infringement of the poison laws might render a chemist liable to be considered a person unfit to hold an authorisation under the Dangerous Drugs Act, which would mean a good deal more loss to him than the sales of a few packets of arsenical weed killer, etc. There is such a thing as legislating a business out of existence, and at times it looks as though we are gradually drifting to this unfortunate end.—Yours faithfully,

DRIFTWEED (8/10).

Legal Queries

M. M. A. (10/10).—On and after October 13 all imported tooth-brushes and shaving brushes offered for sale must bear an indication of their origin, either by a definite indication of the actual country in which the goods were made or by the use of the word "foreign." Since you do not know the country of origin in the case of your stock, it would be advisable to stamp them with the word "foreign," if they are of non-British manufacture. This applies to all imported tooth-brushes and shaving brushes, whether they bear any English wording or not.

J. J. L. (24/89) asks whether a firm carrying on business under the style of "J. J., Ltd., Dispensing Chemists," with a qualified chemist as superintendent and director, may open a branch not in charge of a qualified chemist, and where no poisons are to be sold, in another town under the title of "J. J., Ltd." [There is nothing in law to prevent "J. J. L." from opening a branch as described and carrying on business there under the style of "J. J., Ltd." (omitting the words "dispensing chemists"), but care must be taken not to claim relationship between the two businesses which would be misleading and consequently affording ground for an action at law.]

R. H. F. (1/9) has purchased a house, the purchase and sale of which is to be completed by payment on September 29. At the time of negotiating for the purchase the agent of the vendor, being expressly asked by the buyer if it was intended to have a sale of furniture in the house, replied "No." The signed contract contained no provision for any such sale. It now transpires that the tenant and the owner want to have such a sale, and "R. H. F." asks what right (if any) he has in the matter of preventing it. [Notice of objection to the contemplated sale should be given at once to the tenant as well as to the owner. Should the sale take place in the face of this and damage to the property be caused, "R. H. F." would be entitled to have this made good by his vendor, or, if substantial, he might be entitled to repudiate the contract to purchase.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Warning.

Mr. Percy Davy, chemist and druggist, Rotherham:—"I wish to warn wholesale houses (London particularly) that a man has been calling for help (to get money to take him back home), and saying he is Mr. Davy or comes from me. He has no connection with me."

Glycerin Drum

Mr. H. V. Levine, chemist and druggist, Whitegate Pharmacy, 37 Whitegate Drive, Blackpool, asks would readers communicate with him if they have been, or are offered, a drum of glycerin. The drum has had about 10 lb. taken from it, and the exterior is painted either black or dark grey. This colour may be altered before the drum is offered for sale. If any reader should know of any such drum being offered, either direct to him or through a saleroom, which latter course may be adopted to get rid of the drum, I should be extremely grateful if he would communicate with me, and, if possible, obtain the name and address of the person offering the drum for sale.

Insurance Dispensing Fees

Upon seeing my suggestion (*C. & D.*, September 22, p. 378) in cold print, I think that it would be better if the proposed new section ran thus:—"(10) Where any prescription exceeds in value 2s. 6d. up to and including 5s., an additional fee of 2d.; over the value of 5s. up to and including 10s., an additional fee of 3d.; for each additional value of 5s. or part of 5s., 3d." This would not affect in any way the original fees for appliances or compounded and un-compounded drugs, but would merely be a recognition of the fact that a greater value should receive a greater profit. The original tariff recognised this principle, which was afterwards abandoned.—*W. M. Tims*, Cobham.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. L. P. (3/88).—DOG DISTEMPER CURE.—This liquid is of a dirty sherry colour, having only a slight odour recalling that of a vegetable preparation, and no characteristic taste. Specific gravity, 1.002; total solids, 0.8 per cent.; practically no ash. No sulphates or chlorides. Reaction with ferric chloride and other tests suggested a vegetable infusion of a drug containing some tannin-like body, although not one giving a black precipitate.

F. H. C. (13/98).—A few experiments would enable you to get fairly near the proportion of paraffin to mix with the colza oil—probably about one part to four. A formula for oil suitable for burning in a cycle lamp was given in the *C. & D.*, 1923, 1, 364.

R. B. H. (15/98).—COLOUR FOR GROUND BAIT.—As an alternative to chrysoidine you could try croceine orange, orange G., or acid orange R.

B. W. (25/98).—SWEET SPIRIT OF NITRE SUBSTITUTE.—The following recipe is given in "Pharmaceutical Formulas":—

Sodium nitrite	...	...	...	3ij.
Old sweet spirit of nitre	...	...	...	3ij.
Glycerin	...	...	...	3ij.
Water	...	...	...	3xvj.

Dose: The same as spt. æther. nitrosi.

F. (28/98).—VETERINARY CARBOLIC OIL.—Colza oil can be used in place of olive oil in making this preparation, and it may be coloured with ol. viride or alkanet.

F. A. P. (4/108).—FIREPROOFING CURTAINS.—The following are formulas of preparations used for fireproofing fabrics:—

I		II	
Sodium tungstate	3xvj.	Ammonium sulphate	...
Water	...	Ammonium carbonate	...
Dissolve in the cold and add—	Oiss.	Boric acid	...
Sodium phosphate	3ij. 3ij.	Borax	...
Water	...	Water	...
	Oj.	Dissolve, then add—	...
		Starch	...

Dip the material in the solution, wring out with the hands, dry, and iron if necessary. In the case of formula No. 11, the material is dipped in the hot solution.

W. E. A. C. (30/88).—To incorporate the active principles of hydrastis in a paraffin base for use as a spray for the nose and throat, we would suggest extracting the powdered drug with ether, removing the ether by distillation, and while the resulting extract, containing the ether-soluble alkaloids of hydrastis, is still soft mixing it with liquid paraffin in suitable proportions.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," October 15, 1878

Scientific Novelties

(From the presidential address of the late Mr. T. F. Abraham at the annual meeting of the Liverpool Chemists' Association.)

The past year has been prolific in scientific novelties. The liquefaction of the so-called "permanent gases," the practical development of the telephone, the production of the phonograph and microphone have succeeded one another with bewildering rapidity. The extreme simplicity of the means by which the marvellous results attained with these three new scientific toys (I fear they have hardly yet got beyond that stage of their existence) is such that one's mind almost refuses to accept as statements of sober fact the accounts concerning them. The great difficulty hitherto found in the practical working of the telephone in noisy places seems in a fair way of being removed by the agency of the microphone. Who knows but that some day the vexed question of parliamentary reporting may be settled in a manner satisfactory to all parties except the gentlemen of the Press. . . .



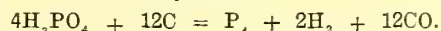
[Commenced C. & D., July 5, 1924]

Phenol-Sulphone-Phthalein, or phenol red, is a convenient indicator for use in bacteriological work. Used as a 0.02 per cent. aqueous solution it is red in alkaline solution and is decolorised by acids, the colour change occurring through a PH range of from 6.8 to 8.4.

Phosphoric Acids and Salts.—By the combination of phosphorus pentoxide with one, two, three molecules of water, three phosphoric acids are produced: metaphosphoric acid HPO_3 , or $\text{P}_2\text{O}_5 \cdot \text{H}_2\text{O}$; pyrophosphoric acid $\text{H}_4\text{P}_2\text{O}_7$, or $\text{P}_2\text{O}_5 \cdot 2\text{H}_2\text{O}$; orthophosphoric acid H_3PO_4 , or $\text{P}_2\text{O}_5 \cdot 3\text{H}_2\text{O}$. Silver and sodium salts of a tetraphosphoric acid $\text{P}_4\text{O}_{10}(\text{OH})_6$ or $2\text{P}_2\text{O}_5 \cdot 3\text{H}_2\text{O}$ are known. *Orthophosphoric acid*, known in the Pharmacopœia as acidum phosphoricum concentratum is a tribasic acid prepared by the direct oxidation of amorphous phosphorus with nitric acid. On a commercial scale the acid is prepared from bone ash by digesting in sulphuric acid. The solution, which contains now calcium tetrahydric diphosphate or superphosphate of lime, is separated by linen filters from the precipitated calcium sulphate, concentrated to a syrup, treated with sulphuric acid, filtered, evaporated and heated to remove the sulphuric acid. Bone ash may be dissolved in hydrochloric acid, and sodium sulphate added. The filtered solution is neutralised with sodium carbonate, refiltered, and barium chloride added. The mixture of barium sulphate and phosphate is decomposed by sulphuric acid. Bone ash is treated with sulphuric acid and ammonium carbonate added. The lime is precipitated, and the triammonium phosphate solution is separated, evaporated and heated to drive off the ammonia. Phosphoric acid for medicinal purposes is prepared also by dissolving phosphorous pentoxide in water. Commercial acid contains impurities, and to prepare the pure acid a lead salt is added to precipitate it. The precipitate is washed and decomposed by suspending it in water, and passing in hydrogen sulphide, or treating with dilute sulphuric acid. If sulphuric acid is used the solution is evaporated and the residue heated, redissolved, freed from lead by hydrogen sulphide. Phosphoric acid is tribasic, and forms mono-, di- and tribasic phosphates. The sodium salts include normal or tri-sodium phosphate $\text{Na}_3\text{PO}_4 \cdot 2\text{H}_2\text{O}$, hydrogen di-sodium phosphate $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$, and di-hydrogen, sodium phosphate $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$. Glacial phosphoric acid heated to 100° with glycerin, neutralised with barium carbonate, filtered, the product decomposed with sulphuric acid gives glycerophosphoric acid. With metals and organic bases, e.g., quinine, glycerophosphoric acid yields normal and acid salts. Sodii phosphas, B.P., is disodium hydrogen phosphate, sodii phosphas acidus, B.P., is sodium di-hydrogen phosphate, calcii phosphas, B.P., is tri-calcium phosphate. Syrup of calcium lactophosphate is made from calcium carbonate, lactic acid and phosphoric acid, or from calcium lactate and phosphoric acid. *Pyrophosphoric acid*, $\text{H}_4\text{P}_2\text{O}_7$, is obtained by heating ortho-phosphoric acid to 215° . It may be prepared in solution also by precipitating the sodium salt with lead acetate and decomposing the precipitate with hydrogen sulphide. Heated in solution it is converted into ortho-phosphoric acid. Pyrophosphoric acid in the presence of orthophosphoric acid is recognised by adding five drops of a 5 per cent. solution of copper sulphate to 20 c.c. of the solution made slightly alkaline to phenolphthalein, and then adding drop by drop, dilute acetic acid until the precipitate formed is just redissolved. A small crystal of $\text{Cu}_3\text{P}_2\text{O}_7$, dropped in causes a deposit of pale grey crystals of

copper pyrophosphate, either immediately or on standing if pyrophosphoric acid is present. Another test is to add silver nitrate and then dilute acetic acid to a neutral solution. White pyrophosphate is precipitated, while yellow orthophosphate is soluble. The precipitate can be shown not to be a metaphosphate by filtering, washing it with very dilute acetic acid, dissolving in nitric acid, neutralising, again acidifying with acetic acid and treating with albumen solution. A precipitate indicates pyrophosphoric acid. Pyrophosphoric acid occurs as a soft glass, or as an opaque crystalline mass. At -10° crystals separate from the syrupy acid. *Metaphosphoric acid*, HPO_3 , is prepared by heating orthophosphoric acid until white fumes are evolved. It forms a transparent, deliquescent mass, and is known as glacial phosphoric acid. On standing, or when boiled, metaphosphoric acid is converted into the ortho acid. Salts can be prepared by neutralising the acid or by heating a dihydric orthophosphate. Six modifications of the salts are known, regarded as salts of polymeric metaphosphoric acids, and form mono-, di-, tri-, tetra-, penta- and hexa- metaphosphates.

Phosphorus.—Phosphorus was discovered by Brand, of Hamburg, who prepared it in 1669 by distilling evaporated urine with sand. Scheele subsequently prepared it by dissolving bone ash (calcium phosphate) in nitric acid, removing the lime by means of sulphuric acid and concentrating the liberated phosphoric acid solution with charcoal, coke, sawdust and strongly heating the mixture in clay retorts, whereby the orthophosphoric acid was converted into metaphosphoric acid, which in contact with carbon at high temperature decomposed into phosphorus, carbon monoxide and hydrogen:—



Scheele's method or modifications of it are now obsolete. Calcium phosphate, bone ash or naturally occurring phosphates as apatite are still the starting point for the production of phosphorus by the Readman-Parker and Robinson process. This process is continuous, and phosphorus is prepared direct from the raw material by the electric furnace. Phosphate, carbon and silica are mixed, heated and fed into an electric brick-lined furnace with carbon electrodes. The gases produced are led into condensers, the first containing hot and the others cold water. As the liquid slag is run off fresh material is added. Distillation of phosphorus begins at 1150° , and the reaction is carried on at about $1,500^\circ$:— $2\text{Ca}_3(\text{PO}_4)_2 + 6\text{SiO}_2 + 10\text{C} = 6\text{CaSiO}_3 + 10\text{CO} + \text{P}_4$. The crude phosphorus, which varies in colour from pale buff to black (the colour being due to impurities), is melted under water in a lead-lined pan heated by a steam coil and sodium or potassium dichromate solution run in, sulphuric acid added and the mixture left for some hours. The purified phosphorus, which is now pale yellow in colour and nearly transparent, is washed with hot water, filtered through canvas and moulded into "wedges" (Fr. "pains") or "sticks" under water in tin moulds. Wedges are packed with water in tin cylinders of 25 or 50 kilos; stick phosphorus is packed in water in tins of 10 lb., each holding ninety sticks. Regulations are prescribed for packing, and containers must conform to specifications. Pure phosphorus at ordinary temperatures is a colourless soft solid of waxy appearance, becoming hard below 5.5° . It is extremely inflammable, and is kept under water. Phosphorus combines directly with atmospheric oxygen, chlorine, bromine, iodine and sulphur. It gradually oxidises with the formation of phosphorous acid, phosphoric acid, ozone and hydrogen peroxide. Oxidation takes place as follows: The first step is without emission of light, the luminescence of oxidising phosphorus being due to the oxidation of phosphorous oxide. Phosphorus melts at 44.5° to a colourless liquid; boils at 290° under atmospheric pressure, and when heated to 34° in air takes fire. Phosphorus is soluble in carbon disulphide, sulphur chloride, phosphorus trichloride, phosphorus sulphide and in benzene and chloroform. A garlic-like odour is emitted when phosphorus fumes in air, and on prolonged exposure it melts and takes fire, dense white fumes of phosphoric oxide being produced. Burns produced by phosphorus are painful and slow in healing. Those who handle the substance are liable to necrosis of

The C.&D. Commercial Compendium

the bones, this usually beginning with disintegration of the jawbone, and is known in the match trade as "phossy jaw." In 1845 red or amorphous phosphorus was discovered by Schröter. It occurs in odourless, tasteless compact pieces, reddish-brown, opaque, with a slight metallic lustre, s.g. 2.25. Heated to 500° it turns black, and at 600° forms a yellow liquid, which on cooling deepens to reddish-brown until solid. It is unattacked by most solvents, and if taken internally is usually excreted unchanged. Conversion of yellow into amorphous phosphorus is effected by heating to 250°. This is done in cast-iron pots with covers fitted with small outlet tubes acting as safety valves. Amorphous phosphorus is usually ground under water, freed from the yellow modification by boiling with a solution of caustic soda, washed with boiling water and dried. The ground powder is sent out in the dry state in tin boxes holding 10 lb. each. Red phosphorus in acid solutions exerts a strong reducing action. The third allotropic modification of phosphorus is a crystalline violet solid, s.g. 2.34, formed by heating yellow phosphorus in sealed tubes with metallic lead. The crystals are separated by dissolving out the lead in nitric acid. Phosphorus is universally distributed in nature. It is necessary for growth and nutrition of both plant and animal tissues, and is present in the brain and nervous system, soils, spring, river and sea water. Phosphorus, as red phosphorus or as phosphorus sesquisulphide, is used in the manufacture of matches. It is used in medicine, as a constituent in preparations for the destruction of rats, mice and other vermin. Calcium phosphide is used for distress signals at sea. Phosphor bronze contains a small amount, usually less than 2-3 per cent., which modifies the properties of the copper.

Photographic Films and the Celluloid Regulations.—Chemists who undertake the developing and printing of celluloid photographic films must observe the regulations made under the Factory and Workshop Act, 1901 (S.R. & O. 1825 of 1921). See Celluloid Manufacture and Storage.

Photographic Materials, Storage.—Considerable time and inconvenience can be saved if a little attention is paid to the manner in which photographic material is stored. For example, plates are generally labelled with the name on the end of the packet and should be stored with this showing; makes of roll film can be distinguished by the colour of the carton, while the size and number is marked on the end, so that the films can be stored on a shelf with their ends facing outwards; a convenient rack for papers can be made on the lines of those used for guide books in tourist ticket offices, or the packets can be placed in a drawer partitioned off into suitable sizes. Mounts and albums are probably best kept in boxes in order to be free from dust. Stocks of sensitive material should not be stored on high shelves on account of chemical fumes, and damp places should also be avoided.

Photographic Mounts.—The following are the sizes (in inches) of mounts:—Midget, $1\frac{5}{16} \times 2\frac{1}{4}$; Victoria midget, $2\frac{3}{8} \times 1\frac{1}{2}$; cabinet, $2\frac{1}{4} \times 1\frac{1}{2}$; promenade, $3\frac{1}{8} \times 1\frac{1}{8}$; boudoir midget, $3\frac{3}{8} \times 2$; panel, $4\frac{1}{8} \times 1\frac{1}{8}$; carte de visite, $2\frac{1}{2} \times 4\frac{1}{8}$; cabinet, $6\frac{1}{2} \times 2\frac{1}{4}$; imperial, $6\frac{3}{8} \times 10$ and $7\frac{7}{8} \times 9\frac{1}{8}$; promenade, $8\frac{1}{2} \times 4$; boudoir, $8\frac{3}{8} \times 5\frac{1}{2}$; panel, $13 \times 7\frac{1}{2}$ and $8\frac{1}{4} \times 4$; stereoscopic, $7 \times 3\frac{1}{2}$; royal, $10\frac{3}{8} \times 5\frac{1}{8}$; large panel, $10\frac{1}{2} \times 17$; grand, $23 \times 13\frac{1}{2}$. The sizes of mounting papers are:—Demy, 22×17 ; royal, 25×20 ; cartridge, 26×21 ; double crown, 30×20 ; imperial, 30×22 ; double demy, 35×22 ; double elephant, 40×27 ; anti-quarian, 53×31 .

Photographic Papers, Sizes.—British makers of sensitised papers cut their products to the same sizes as the plates (q.v.). In addition, bromide and gaslight papers are obtainable in rolls 10 feet and 20 feet long by 15, 20, 22, 25, 30 and 40 inches wide; printing out paper (P.O.P.) in sheets $24\frac{1}{2}$ inches by 17 inches and rolls 25 feet long and 12 and 25 inches wide. Platinotype paper is supplied in sheets 26 inches by 20 inches; carbon

tissue in "bands" 12 feet long and 30 inches wide; and ferro-prussiate in rolls 32 feet long and 30 and 40 inches wide.

Photographic Plates and Films.—These consist of a layer of light-sensitive emulsion spread on a transparent support, such as glass or celluloid. The emulsion is a mixture of a sensitive silver salt (mostly bromide and occasionally iodide) in gelatin or collodion. Practically every make of plate or film is nowadays given a speed number, those in general use being Vogel, Scheiner, Watkins, Hurter and Driffield, Wynne, Warnerke, and the following table shows the relations between them:—

Vogel	Scheiner	Watkins	H. & D.	Wynne	Warnerke	Relative Exposures
8	C	4	6	14	8	120
9	B	5	7	15	9	100
10-11	A	6	9	17	10	82
12	1	7	12	20	11	66
13	2	9	14	22	12	55
14	3	11	18	24	13	45
15	4	16	23-24	28	14	32
17	5-6	22	31	32	15-16	22
19	7	32	47	33	17	16
20	8-9	45	65	45	18-19	11
22	10	65	94	56	20	8
23-24	11-12	90	130	64	21-22	6
26	13	130	188	78	23	4
27	14-15	180	260	90	24-25	3
29	16	250	360	111	26	2
31	17-18	350	504	128	27-28	1½
33	—	500	—	156	—	1

The numbers are, as a rule, only approximate, and also vary somewhat with each manufacturer; nevertheless they form a useful guide to users.

Photographic Roll Films, Sizes.—Most British makers of roll films supply them in spools of six and twelve exposures to fit the cameras mentioned in the table below. The notable exceptions are that there are no twelve exposure spools for Nos. 28, 29, 27, 17, 20, 26, 30, and No. 2 Ensignette Junior; No. 27 is only available in eight exposure spools; No. 2 Ensignette Junior in seven exposure; Nos. 30, 22, 25 and 03 in six and ten exposure; No. 05, when used in No. 1 Panoram, allows three and six exposures, and No. 03, when used in No. 4 Panoram, allows only two and four exposures.

Size of Picture (inches)	Ordering Number	Camera Fitted	Size of Picture (inches)	Ordering Number	Camera Fitted
$1\frac{1}{2} \times 2\frac{1}{4}$	28	No. 1 Ensignette.	$2\frac{1}{4} \times 3\frac{1}{4}$	05	F.P.K. No. 1.
2×3	29	No. 2 Ensignette.			No. 1 Panoram.
$1\frac{1}{8} \times 2\frac{1}{2}$	21	No. 0 Graphic.	$2\frac{3}{8} \times 4\frac{1}{8}$	30	Popular Ensign 2½.
		Brownie No. 0.			F.P.K. 2C.
$1\frac{1}{2} \times 2\frac{1}{2}$	27	Vest Pocket Kodak or Ensign.	$3\frac{1}{4} \times 4\frac{1}{4}$	18	No. 3 F.P. Kodak.
		Apem Vest Pocket			Ensign 3½.
$2\frac{1}{4} \times 3\frac{1}{4}$	—	No. 2J Ensignette Junior.			Apem Box No. 3, and Feltrex.
$1\frac{1}{2} \times 2$	02	Pocket Kodak.	$3\frac{1}{4} \times 5\frac{1}{2}$	22	Ensigns 3¼A.
$1\frac{1}{8} \times 2\frac{1}{4}$	21	F.P.K. No. 0.			F.P.K. No. 3A.
$2\frac{1}{4} \times 2\frac{1}{4}$	17	Box Ensign 2¼A.	$3\frac{1}{4} \times 4\frac{1}{4}$	24	Apem Laltrex.
		Brownie No. 1.			Brownie No. 3 and No. 3 B.E.
		No. 1 Auto Kodak B.	$3\frac{1}{4} \times 5\frac{1}{2}$	25	Stereo Brownie No. 2.
$2\frac{1}{4} \times 3\frac{1}{4}$	20	Box Ensigns 2¼B.	$3\frac{1}{4} \times 3\frac{1}{4}$	01	Bull's Eye No. 2.
		Brownie No. 2.			F.P.K. No. 2.
		Ensign Carbine, 4 and 6.	4×5	03	No. 4 Panoram.
		Apem Box No. 2.	4×5	23	Bull's Eye No. 4.
		Altrex and Beltrex Ensigns 2¼.	$4\frac{1}{4} \times 3\frac{1}{4}$	19	F.P.K. No. 4.
		Ensign Carbines, Nos. 10 and 12.	$4\frac{1}{4} \times 6\frac{1}{2}$	26	Cartridge Kodak No. 3.
$2\frac{1}{2} \times 4\frac{1}{2}$	16	Brownie No. 2A.	5×4	04	Apem Focalplane.
		F.P.K. 1A.			F.K. No. 4A.
		Apem Box No. 2A, and Celtrex.	7×5	15	Cartridge Kodak No. 4.
					Cartridge Kodak No. 5.

To facilitate ordering and general reference to their products several manufacturers place a letter or number before the ordering number, e.g., Barnet B, Kodak 1 (one), Ensign E, Ilford X, Wellington W.

REDUCTION IN THE PRICE OF Roboleine



The demand for the family size of Roboleine is now so large and is increasing so rapidly that we have found it possible to reduce the retail price from 15/- to 12/6.

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The family size of Roboleine is going to be very popular indeed. The economy it offers is a great selling point. It will be advisable to bear this in mind when looking over your stocks.

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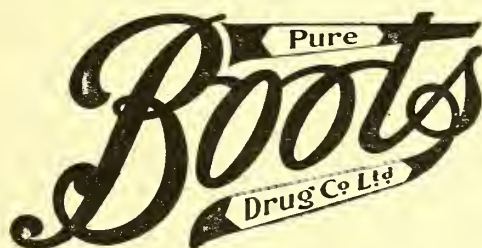
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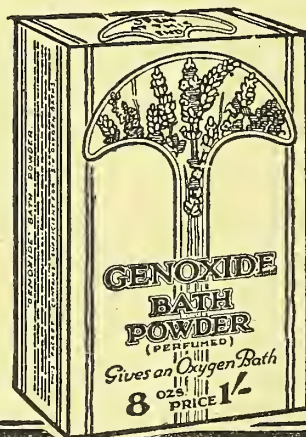
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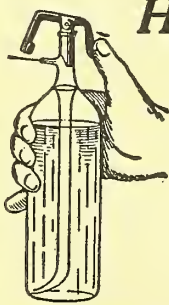
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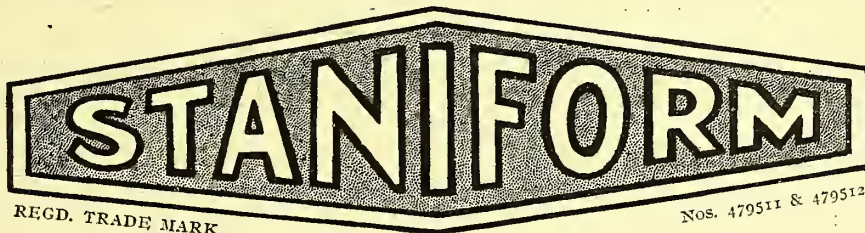
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RESULT: 'ASPRO' DISPLAY Sold 10 times more than competitors'

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301, Regent Road,
Salford.

William Danson, M.P.S.

Chemist and Druggist.

Sept. 24th, 1928

Messrs. Gollin & Co.
Gentlemen,

Recently I made a display of ASPRO along with two other brands of Aspirin Tablets. It was remarkable that during the period I sold about 6 Dz. Aspro but only about $\frac{1}{2}$ Dz. of the other two together.

Yours faithfully,

William Danson

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'ASPRO' has a Tremendous Power to Build up a Chemist's Business

The above test should demonstrate what a great power 'ASPRO' Publicity is to help the Chemist. It is not only on account of the actual 'ASPRO' that it usually sells, but also on its great value in bringing customers into the Chemist's shop who would not otherwise have come in. Every time you put an 'ASPRO' window display in you connect up with a £250,000 continuous advertising activity just the same as if you put your own name at the foot of the advertisements. Why not write us for a window display to-day, also take advantage of the liberal bonus terms shown below whereby you can make an extra 17% profit?



Buy 'ASPRO' on Bonus Terms and Get 17% EXTRA PROFIT

Just have a look through your purchases of 'ASPRO' and you will find that you are in a position to buy on Bonus terms. Buying on Bonus terms means extra profit averaging 17% to you. So why not place your next order through your Wholesaler on Bonus terms?



WHAT THE BONUS IS

**BONUS
on 10's**

One Gross Order - Bonus 1 dozen packets
Half Gross Order - Bonus $\frac{1}{2}$ dozen packets
Half Gross 10's is minimum order
accepted for Bonus purposes.

**BONUS
on 25's**

One Gross Order - Bonus 2 dozen packets
Half Gross Order - Bonus 1 dozen packets
Quarter Gross Order - Bonus $\frac{1}{2}$ dozen packets
Quarter Gross is minimum quantity.

NO BONUS ON 60's.

CONDITIONS

The only conditions made are that the Chemist who buys on these terms undertakes to show Advertising matter in his shop window for 14 days and sell at advertised prices. As 'ASPRO' is so extensively advertised, this action will not only bring customers into the Chemist's shop to purchase 'ASPRO' but should enable the Chemist's staff to make other sales to the customers. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices. For Bonuses it is not necessary to buy both sizes at the same time, i.e., in single lots 6 dozen 10's or 3 dozen 25's will qualify the Chemist.

HOW TO ORDER BONUS PARCELS

We do not sell direct to the Chemist. All our business goes through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler so that we may forward the order on, and the Bonus will be supplied direct by us.

ORDINARY PRICES for 'ASPRO' are as follows:
 { 6d. size containing 10 tablets, 4/6 dozen }
 { 1/3 size containing 25 tablets, 11/6 dozen }
 { 2/6 size containing 60 tablets, 21/- dozen }
 NOTE.—2/6 size contains 10 extra tablets.

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.
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WHAT THE BONUS IS

BONUS on 10's { One Gross Order - - Bonus 1 dozen packets
Half Gross Order - - Bonus $\frac{1}{2}$ dozen packets
Half Gross 10's is minimum order accepted for Bonus purposes.

BONUS on 25's { One Gross Order - - Bonus 2 dozen packets
Half Gross Order - - Bonus 1 dozen packets
Quarter Gross Order - Bonus $\frac{1}{2}$ dozen packets
Quarter Gross is minimum quantity.

NO BONUS ON 60's.

CONDITIONS

The only conditions made are that the Chemist who buys on these terms undertakes to show Advertising matter in his shop window for 14 days and sell at advertised prices. As 'ASPRO' is so extensively advertised, this action will not only bring customers into the Chemist's shop to purchase 'ASPRO' but should enable the Chemist's staff to make other sales to the customers. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices. For Bonuses it is not necessary to buy both sizes at the same time, i.e., in single lots 6 dozen 10's or 3 dozen 25's will qualify the Chemist.

HOW TO ORDER BONUS PARCELS

We do not sell direct to the Chemist. All our business goes through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler so that we may forward the order on, and the Bonus will be supplied direct by us.

ORDINARY PRICES for 'ASPRO' are as follows: { 6d. size containing 10 tablets, 4/6 dozen } NOTE.—2/6 size contains 10 extra tablets.
1/3 size containing 25 tablets, 11/6 dozen
2/6 size containing 60 tablets, 21/- dozen

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.
Agents—GOLLIN & CO. PTY. Ltd. ('Aspro' Dept.), SLOUGH, Bucks. Phone: Slough 608.

No proprietary right is claimed in the method of manufacture or the formula.

CROOKES' EMULSION

Formerly COLLOSOL COD LIVER OIL EMULSION 50%



ATTENTION OF THE TRADE

is drawn to the

CHANGE OF TITLE

of this product, which has become so rapidly established in medical opinion.

In those many instances where Pharmacists have the opportunity for personal recommendation, Crookes' Emulsion can be suggested with the assurance that its unique character and the support accorded to it by the highest medical authorities render it an ideal line and one which cannot fail to enhance their reputation

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Women who once try the famous *Snowfire* products, ask for them again and again. Especially *Snowfire* CREAM. This delightful preparation combines the qualities of a skinfood and vanishing cream and it tones up and beautifies. In handsome opal jars, 1/3. Also aluminium containers, handbag size, price 3d.

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Profitable *Snowfire* products include:

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" Jelly	" Shaving Stick
" Shampoo	" Toilet Soap

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IT is a powder to be burned and the fumes inhaled without any bad after-effects. Recommended by physicians throughout the world.

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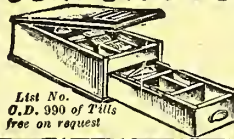
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improved 16 x 8 1/2 x 6 ins.
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CALABRIAN LIQUORICE JUICE

in 1 oz., 2 oz., 4 oz. Sticks, or
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is endorsed by
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Carriage Paid on original cases only, 1 doz. or 3 doz. either size. Monthly account.	

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An excellent Calmative and Nerve
Sedative, free from any disagreeable
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8 oz. BOTTLES, EACH **3/6**

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LAKEROL

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SHOW NEVER LESS THAN 5d. PROFIT
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3 dozen, bonus 6 tins,

Outlay .. £1 10s. 0d. Profit .. £1 2s. 0d.
or 6d. per tin.

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6 dozen, bonus 1 dozen
2½% trade discount.

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12 doz., bonus 2 dozen
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NONN-****Nonn****FOR NERVES****RESTORES SELF-CONFIDENCE****Sales must follow!**NONN for MEN
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3/- per cartonNONN for WOMEN
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27/- doz.*Proprietors of NONN LTD.,
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Less 5% dis. on 25 orders.

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PURE CULTURE YEAST ONLY

NO OTHER INGREDIENTS.

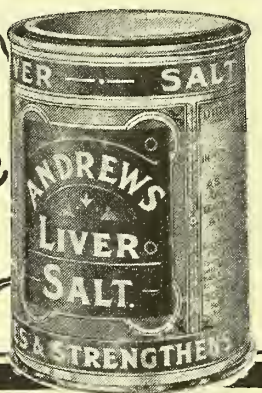
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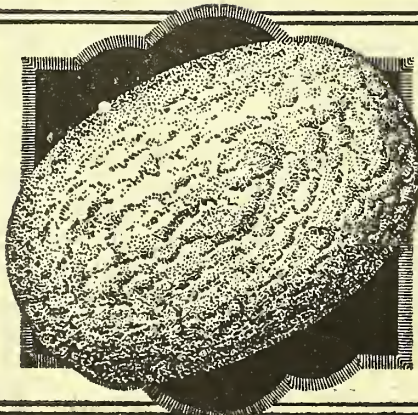
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Please note that PLASMONTA
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PLASMONA

We are making this alteration in order to avoid any possible
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is now supplied in the specially designed container. Any
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Dummy tins are now available.

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COD LIVER OIL B.P.

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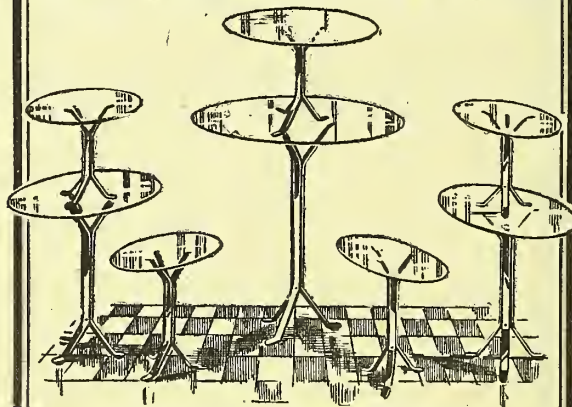
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5 Steel Tripods 9" high. 2 Steel Tripods 12" high.
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All the above Tripods—Brown Bronze finish.

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£2/10/0 THE SET.

Ref. No. M 629, an exactly similar set, but with Tripods in Copper, Oxidised finish, £2 10 0 the Set.

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contains VITAMINS A, B, C, and D,
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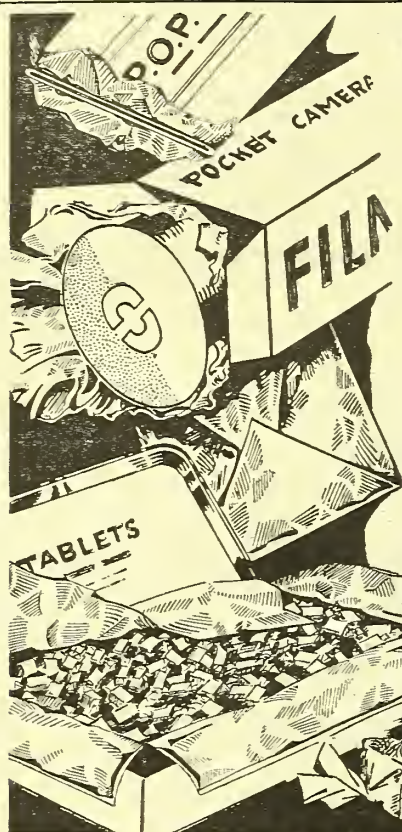
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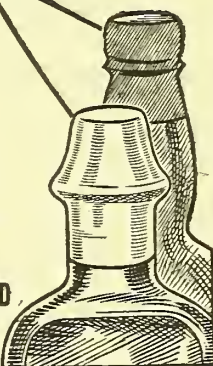


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Does not contain any Scheduled Poison.

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**ALL SALES OF SUNSHINE GLAXO
WILL PASS THROUGH THE
NORMAL TRADE CHANNELS**

*Our new system of dating
(only 4 dates per annum)
makes constant stock
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TWO SIZES ONLY

2/- & 4/-

Address all enquiries to
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Their quotations include the charge for individual N.P.L. Test, and in comparing prices this should not be overlooked, as the Test has not been compulsory for upwards of three years.

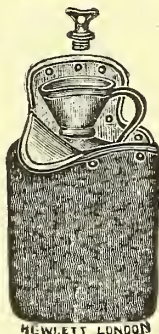
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The "Charlotte" (Regd.) Hot-Water Bottle Cover**PRICES.**

Best Quality. 2nd Quality.

8 × 6 in. ...	20/3	...	12/-	doz.
10 × 6 in. ...	21/6	...	13/-	"
10 × 8 in. ...	23/-	...	15/-	"
12 × 8 in. ...	25/-	...	16/-	"
12 × 10 in. ...	26/6	...	18/9	"

Less 10%. Supplied in plushette, pink or grey.

THE ONLY SATISFACTORY HOT
WATER BOTTLE COVER ON THE
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—NO MORE BURNS—

STOPPER COVERED COMPLETELY.

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Patent No. in Great Britain
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Patent Rotating Canister packing to retain aseptic conditions. In use, only the
amount required is withdrawn and cut off. The remainder is not exposed.

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	Minimum Public Prices Each	Minimum Trade Prices Per Doz.
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Sal Alembroth	2/3 1/3 1/2	20/3 11/6 6/4
Sublimate		
Carbolic		
Boric		

	Minimum Public Prices Each	Minimum Trade Prices. Per Doz.
6-yd. 3-yd. 1-yd.		6-yd. 3-yd. 1-yd.
Plain Absorbent	2/- 1/2 -/8	18/- 10/6 6/-
Double Cyanide	2/6 1/5 -/9	22/6 12/9 6/9
Picric		
Iodoform	3/- 1/8 -/10	27/- 15/- 7/6

**LINTS.
PLAIN and BORIC.**

	Min. Public Prices	Min. Trade Prices
2in. wide	1/3 each	11/3 doz.
4 "	1/9 "	15/9 "
6 "	2/3 "	20/3 "
Approx. 6 yds. Plain and 4 yds. Boric		

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NOTICE.—Several instances of the sale of VENUS BRAND goods
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name or design of VENUS or any imitation thereof in connection with Seamless Moulded Goods.

**SEAMLESS MOULDED SURGICAL GOODS, PESSARIES, HOT WATER
BOTTLES, URINALS FOR NIGHT OR DAY USE. Wholesale & Export Only.**

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**WHEN STUDYING COVERS
FOR
HOT WATER BOTTLES
FOR YOUR
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INSIST ON SEEING
QUALITY H.14a VELOURS**

A beautiful fabric in delightful shades. Your wholesale house will be pleased to show you patterns. We make every kind of cover, and prices are at your disposal, but this quality, so reasonable in price, but very beautiful, will be an easy favourite with your customers.

REMEMBER THE NAME "H.14a VELOURS"

The illustration shows
our No. H.27. Same
quality as H.14a—
with Motif.

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BROTHERS LIMITED

184 to 190 GOSWELL ROAD, LONDON, E.C.1.

REGISTERED **Reliance** TRADE MARK
THE ORIGINAL
SEAMLESS-MOULDED
HOT WATER BOTTLES

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New exclusive
and original
designs. More
beautiful colour-
ings and also
"LUSTRE-DE-LUXE"
the gleaming
metallic finish
which scintillates.
Gold, Silver, etc.



BUY FROM THE FIRM WITH MAINTAINED FIXED PRICES
AND OF REAL GOOD SERVICE TO THE RETAILER.

Send for our latest list containing prices and illustrations of the coming
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When you're asked for
crêpe bandages—sell

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BLUE CARTON

Satisfied customers are an asset.

PROTECTED PRICES.

2"	2 1/2"	3"	3 1/2"	4"
Cost: 12/-	15/3	18/3	21/3	24/3
Sell: 1/6	1/11	2/3	2/8	3/-

Discount for quantities: 3 doz. 2 1/2%, 6 doz. 5%.

Stocked by all the leading wholesalers.

Grout & Co., Ltd., 35 Wood St., London, E.C.2

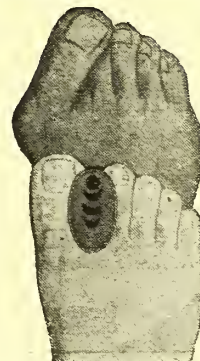


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Is the recognised corrective device
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Made of pure Para rubber in three
sizes. Retail price, 2/- each.

Write to-day for full particulars.

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THE
Original, Non-Greasy, Odourless

QUININE PESSARIES

A preparation of reliability and
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15/-

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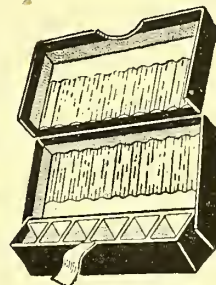
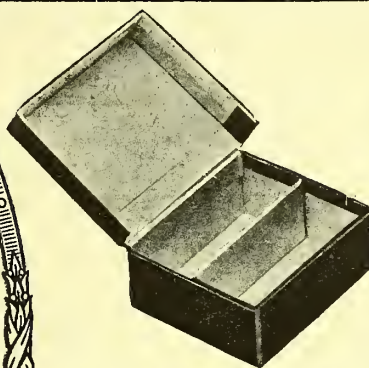




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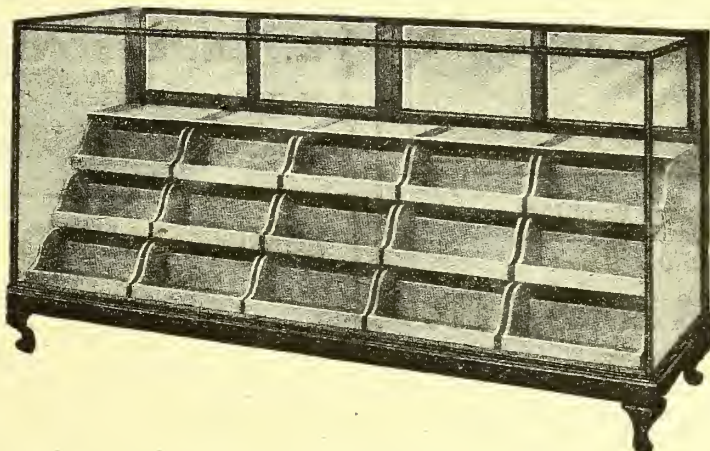
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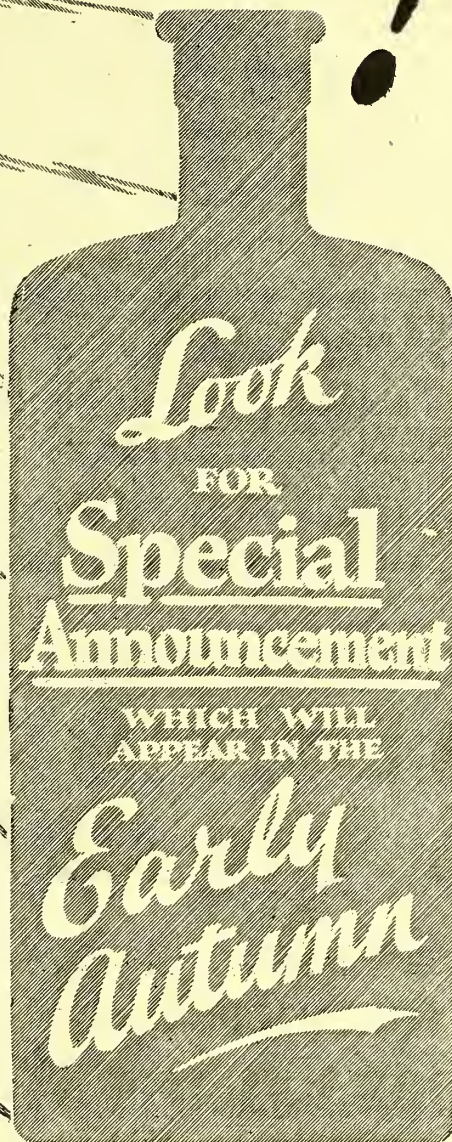
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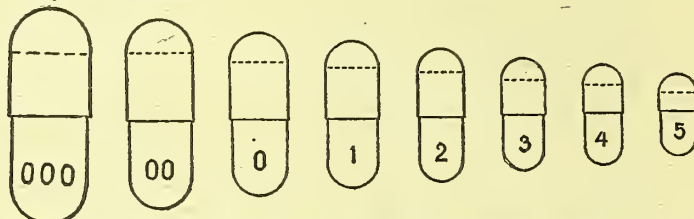
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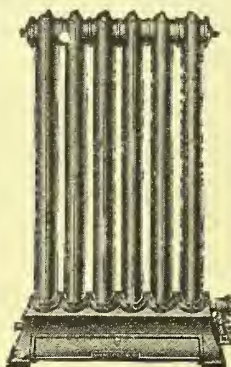
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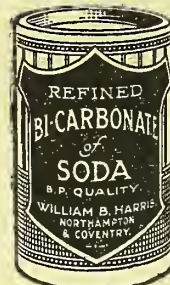
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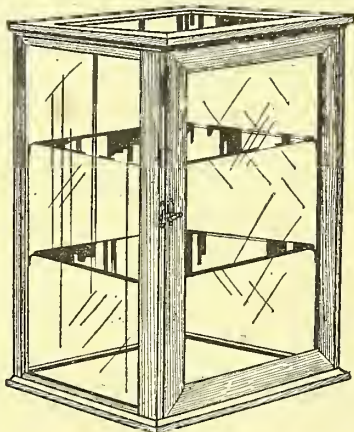
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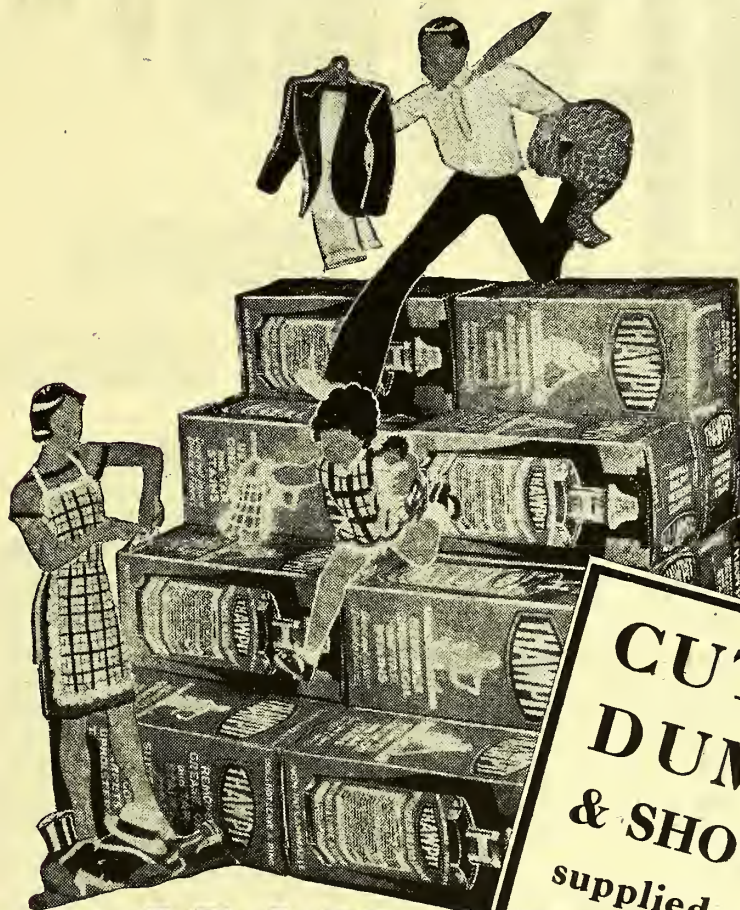
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42 CANNON ST.
LONDON E.C. 4

OCTOBER 13, 1928

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4.—N.W. SUBURB.—General Retail and Dispensing Business, with Kodak Agency and small Ladies' Hairdressing Department; returns approach £50 weekly; good living accommodation; moderate rent; held on lease; price £1,200.

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6.—LONDON, N.—Dispensing and Photographic Business (Kodak); returns, under the management of a lady, £1,500 per annum, rapidly increasing; large shop, in very good position; house sublet at £2 weekly; long lease; price to be arranged; part payment entertained.

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9.—SUFFOLK.—Good-class Retail and Dispensing Business, with Kodak Agency, and scope for Optics; returns, present rate, £30 weekly; has done £2,600 per annum, but has fallen on account of neglect; net profit 25 per cent.; imposing corner shop; very good house; rent £100; 15 years' lease; price, for quick sale, £800, or valuation of stock and fixtures and £150 for lease and goodwill.

10.—STAFFS.—General Retail and Dispensing Business, producing a net income of £350 per annum; single-fronted, lock-up pharmacy; rent £23; nearest opposition 1½ miles; price £350, or valuation of stock and fixtures only.

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12.—DERBYSHIRE.—General Retail Business with Kodak Agency; very old-established; returns average £40 weekly; shop has two windows; good house, with garage and garden; rent £50; held on lease; price £1,400.

13.—SOMERSET.—Family Retail and Photographic Business; established over a century; returns £1,050; sadly neglected; old-fashioned fixtures; good working stock; held on lease at moderate rental; price about £600, or valuation of stock and fixtures.

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3.—**MANCHESTER** (District).—Old-established Dispensing Chemist Business in good-class suburb on a yearly tenancy at £120 p.a.; let off £117; returns average £27 per week, all cash; excellent opportunity as quick sale is desired; good reasons. (172)

4.—**DURHAM CO.**—Chemist Business for immediate disposal; lease can be arranged at £30 p.a. rent; takings £17; Kodak and Ucal Agencies; good living accommodation. (174)

5.—**STAFFS DISTRICT**.—Excellent opportunity for qualified man. Drug and Photographic Store on lease 5 years to run at £40 p.a.; returns £10 per week; could be easily trebled; good living accommodation; full particulars on application. (169)

6.—**HULL**.—Dispensing and Family Chemist Business in busy thoroughfare (which will shortly become a main road owing to alterations); rent £26 on a yearly tenancy, which can be secured; returns £900 p.a.; lock-up shop; good prospects for a young qualified man. Further particulars on application. (170)

7.—**CHESHIRE**.—Retail Family Dispensing Business; single-fronted shop; good living accommodation; held on lease, five years, at £130 per annum; established 20 years; returns average £32 per week. Full particulars on application. (152)

8.—**LONDON, S.W.**—Very old-established Family Retail and Dispensing Business, occupying prominent corner position in busy thoroughfare; lock-up shop with storage accommodation; held on advantageous lease at £100 per annum; returns approximately £2,300 per annum; can be increased under personal management. Full particulars on application. (148)

9.—**PLYMOUTH**.—Very old-established Retail Dispensing Business; for immediate disposal owing to illness of owner; lease will be granted; part let off at £28 12s. p.a. to excellent tenant; returns £40 per week; double-fronted shop; optical testing room, three stock rooms, all on ground floor; recommended. Further particulars on application. (162)

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14.—**CARMARTHENSHIRE**.—Old-established Chemist's Business situated in good position on main street, with living accommodation; held on lease for 7-14 years; rent £400 p.a.; returns average £35-£40; could be increased; stock approx. £8-900. Further particulars on application. (176)

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6.—**EASTERN COUNTY**.—Good-class Business; neglected; returns £1,500; plenty of scope; large house and pharmacy; price £800, or valuation, plus small goodwill.

7.—**OXON**.—Good medium class Retail, with Kodak Agency, in good position, returning under manager £2,200; scope for increase; price £1,350.

8.—**KENT** (30 miles out).—Sound Light Country Retail; pleasantly situated; quite unopposed; returns approach £1,500; good house; price, with property, £1,600.

9.—**NORTH-EAST COAST**.—Light Retail and Dispensing with Kodak Agency; returns £2,350; good house; corner position; stock and fixtures worth £1,500; price £1,850.

10.—**LONDON, N.W.** (few miles out).—Good middle-class Cash Retail, with Kodak Agency; no Optics; returns £60 weekly, audited accounts; handsome pharmacy, with house attached; excellent stock; price £2,750; worth attention.

11.—**LONDON, E.**—Profitable Cash Retail and Photographic Business in busy main road; present returns £1,500, under manager; scope for increase; valuable lease; price £1,050, or offer.

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135 QUEEN ST., NEWTON HEATH, MANCHESTER.

Bolton.—Several returning £1,250 p.a., etc., price £800. South Coast (popular resort).—High class, returns £1,500 p.a., price £1,250. Manchester.—Several exceptional offers, accept valuation terms. Others, Liverpool, Bucks, Somerset, etc.
(Tel.: Falsworth 113.)

PREMISES FOR SALE.

EAST LONDON.—Shop Premises, with good living accommodation over, in a very populous working-class market; excellent scope for Chemist, as there is very little opposition; freehold for disposal, or will be let on 21 years' lease with premium. Apply to Chamberlain & Willows, Surveyors to the owner, 23 Moorgate, E.C.2.

WORCESTER.—Double-fronted Freehold Shop, with house, in one of the most important streets in the city, to be sold, price £1,250; it has been a Chemist's shop for upwards of 40 years; good opportunity for a young, energetic man to do ready-money mixed business; vacant possession September 29. Apply Yeates & Sons, Auctioneers, Worcester.

FREEHOLD Shops, Hackbridge, Surrey.—Main road position, almost outside railway station and two bus stops; a splendid opening for Chemist, not being one within 1½ to two miles; urgently required in the neighbourhood. For particulars apply E. Grout, 6 Link Road, Hackbridge, Surrey.

BUSINESSES FOR DISPOSAL.

ARDWICK, MANCHESTER.—For Sale. Chemist's Business; a small, but well-equipped shop with large store room above, situate in a thickly populated district, to be sold as a going concern, to include stock and fixtures, etc.; long lease at moderate rent; price £450. Full particulars from Messrs. Duncan B. Gray & Partners, Westminster Bank Chambers, Lord Street, Southport.

BIRMINGHAM (pleasant suburb, south side).—Well-stocked Light Retail and Photographic; corner position in thickly populated district; established over 20 years; net profit £300 per annum; great scope for increase under energetic management; good house, with bathroom, garden, side entrance, and double gateway; rent £50; price for quick sale £620. 260/17, Office of this Paper.

EAST LANCASHIRE.—For Sale. Branch Business; opened 17 months ago; splendid opportunity for beginner; only reason for disposal, sickness; good stock and fixtures; near four doctors; low rental; working-class district; reasonable price. Full particulars from 262/23, Office of this Paper.

ILFORD.—Well-established General Retail and Dispensing Business for Sale; good N.H.I. Dispensing, Kodak Agency, and living accommodation if required; ample room for own D. & P. plant; well stocked; open to any investigation; turnover £3,900, increasing; good lease; small rent. Apply 262/4, Office of this Paper.

LANCASHIRE.—£250 down, balance on easy terms; turnover £750 (certified); Kodak Agency; N.H.I.; rent £26; ample scope for increase; no near opposition; well populated district; lease as required; total purchase price, £425. 263/17, Office of this Paper.

LANCASHIRE.—Genuine offer, Chemist's Business for Sale, splendidly fitted; attractive window; on busy main road; owner leaving district; 10 years' lease; well stocked; takings £600; good scope for energetic man; good opening for Photographic and Optics; excellent living accommodation, electric light throughout; price £400, or nearest offer. 263/31, Office of this Paper.

LONDON, N.—Old-established Business, with large N.H.I.; proprietor recently deceased; large shop, with vacant house, suitable for adding Wholesale; also adjoining premises forming corner site, area 3,500 sq. ft., on main road; freehold; reasonable price "all at." Apply Donaldson & Sons, F.A.I., 562 Kingsland Road, Dalsion Junction, E.8.

LONDON, S.W.—Neglected Business in working-class district; good lease; low rental; well fitted and stocked; takings last year average £22 per week at good profits; at present under very indifferent management; price £450, or part-payment might be arranged; particulars at interview. 262/15, Office of this Paper.

MIDLANDS.—Chemist's Business for immediate disposal; fixtures, etc. £250; stock at valuation; good living accommodation, bath, garden, etc.; at £52 p.a. inclusive; long lease; profits £250 (Income Tax returns); owner bought another business. 263/39, Office of this Paper.

SHEFFIELD.—Business for Sale, working-class district; returns £1,000 per annum, plus 4,000 N.H.I.; good stock; rent £7 15s. quarter; living accommodation; sound reason for disposal. 135/706, Office of this Paper.

STOCKSFIELD-ON-TYNE (Northumberland).—Chemist's and General business for Sale at once, owing to death of lessee; excellent house and garden; charming situation; seven years' lease (renewable); rent £70 per annum; average weekly takings £27; price £850. Apply Brierley, Chemist, Stocksfield-on-Tyne.

TORQUAY.—For Sale, in growing neighbourhood, unopposed Business; long lease; low rental; stock, fixtures, lease all at £350. 262/3, Office of this Paper.

WARWICKSHIRE.—For immediate disposal, genuine Light Cash Retail, with good Panel and Photo, in busy town; returns £950; easily worked; excellent stock; will accept valuation or £400 for quick sale. "T. T." 134/694, Office of this Paper.

WEST COUNTRY.—£500 secures a profitable Dispensing and Photographic Business in healthy country district; returns about £900; good house and garden; rent £45; long lease; electric light and water; population over 2,500; no opposition. 260/29, Office of this Paper.

YORKSHIRE.—An old-established Chemist's Business; general Retail, heavy N.H.I., Wine Licence; electric light; double-fronted shop in main street; rent, lease or purchase; valuation stock and fixtures; proprietor wishing to devote all time for Wholesale. Particulars to genuine buyers, 252/22, Office of this Paper.

CASH Drug Store in populous working-class locality, London, N.; established over 50 years; last 4 years' returns average £956, accountant's figures; lease 14 years; rent £56; small living accommodation; scope for big increase by addition of N.H.I. and Photographic; price £300, or near offer. Further particulars to bona-fide cash purchasers only, triflers ignored. P.C.B. 59/14, Office of this Paper.

CHEMIST'S and Druggist's Business (established 1857) in Wiltshire town; double-fronted shop with office and storerooms; house containing 5 good bedrooms, bathroom, 2 reception rooms, kitchen; and offices; present turnover £1,500; price £1,350, all at, including freehold. 135/705, Office of this Paper.

DRUG and Photographic Stores, S.W., fairly stocked and fitted, with living accommodation; weekly takings £16; neglected; takings could be doubled with M.P.S.; big scope for N.H.I.; all at £300; part can remain. 261/22, Office of this Paper.

DRUG Stores, East London; £525 for quick sale, or reasonable offer; includes stock, fixtures, fittings, etc.; 12½ years' lease; living accommodation; through illness. 261/7, Office of this Paper.

FOR Sale, near Maidstone, Branch belonging to M.P.S., conducted as Drug Stores; lock-up shop, on long lease; nearest opposition over 1½ miles; handsomely fitted and well-stocked double-fronted shop; trade average about £500 per annum; good-class neighbourhood; rapidly growing; trade could be easily doubled under personal supervision; good reason for disposal; for quick sale would take £350. Apply 260/13, Office of this Paper.

GROWING Business in N.W. London; total rent and rates after sub-letting, £70; house and two garages attached; Kodak Agency; turnover last year £1,200, all cash; net profit £275; splendid scope for energetic man; £200 goodwill; stock and fixtures at valuation. 257/14, Office of this Paper.

LOCK-UP Pharmacy, near Southend; Cash Retail, taking £30 per week; neglected; scope for considerable increase; splendid position; owner, leaving the trade, will accept £550, or reasonable offer. Apply in first instance to "Albert," 51 Harborton Road, Highgate.

APPOINTMENTS.

UNIVERSITY COLLEGE, NOTTINGHAM.

DEPARTMENT OF PHARMACY.

APPPLICATIONS are invited for the position of Lecturer in Pharmacy. Salary £280 per annum. Forms of application, which must be returned not later than October 13, may be obtained from

J. E. SHIMELD,
Registrar.

AGENCIES.

HOLLAND.—Ortt & Co.'s Handel Mij. (Director, W. J. F. Smith), Agents, Rotterdam (established 1896), invite correspondence with firms of repute desiring representation in Holland; highest references supplied.

MANUFACTURERS of Bath Salts, Shampoos, and Packed Goods offer profitable Agencies to reliable Export Agents at home or abroad; good remuneration to reputable firms; Shipping Agents preferred. Full details from the Rose Manufacturing Co., 114 Westmorland Road, Newcastle-on-Tyne.

PREMISES TO LET.

WEMBLEY.—Exceptionally fine position in splendid parade of shops immediately adjoining Preston Road Station (Metropolitan Railway); half shop and basement; good opening for Chemists; to let on lease; rising rental, commencing at £125 per annum; living accommodation available if required. Further particulars, Clifford Sabey Estates, 131 Carlton Avenue, Wem. 2031.

EXCELLENT opportunity for high-class Chemist and Fancy Goods in newly-erected shop and flat over in London Road, Bromley, Kent; rent £200 per annum exclusive; no premium. Apply Baxter, Payne & Lepper, opposite G.P.O., Bromley.

BUSINESSES WANTED.

HIGH-CLASS, well-equipped Pharmacy; net profit must be £1,500 or over; necessary preliminary details must include lease and rental or price of freehold; bankers' references if required; cash waiting; all communications strictly confidential. Write "Chemists," 14 King's Avenue, Parkstone, Dorset.

I DESIRE to purchase privately for cash, a sound Business with accommodation in any good London suburb; returns about £30 per week; the business must bear strict investigation. Reply, by letter only, to Bennet, 73 Westminster Road, Edmonton, N.

PHARMACIST wishes to Purchase for cash a good-class, medium-sized Business; no Optics; south-west or South Coast preferred; only genuine concern open to complete investigation entertained; all information received treated with strictest confidence; no agents. Apply 262/14, Office of this Paper.

WANTED, a good-class Dispensing and Photographic business, within ten-mile radius south-east of Stockport; turnover £1,500 to £2,000; residential area; shopping centre; house not required; quick move-in desired. J. S. Sumner, M.P.S., Lamb Inn Cottage, Chinley, Derbyshire.

WANTED, a sound Business within 30 miles of or in Birmingham, with turnover of £2,000 or more; no objection to a smaller if position is right and scope. Also for Sale, Business in South Lancashire; price £1,200. References given and required. 254/31, Office of this Paper.

SITE FOR SALE.

ADVERTISER has a beautiful site suitable for Chemist Shop; 14 years' lease; outside main line railway station, London; no opposition; low rent; small premium; right on main road of one of the most densely populated districts in London; maiden ground. Apply F. Coakley, 24 Station Road, Brixton, London, S.W.

PARTNERSHIPS.

CHEMIST wanted, with small capital, to join advertiser, London, S.W., to exploit a novelty Cash Drug Store; should have up-to-date ideas of the Drug trade. 135/704, Office of this Paper.

PARTNER required in Drug Stores, London; good position; main road; capital £400; must be qualified Chemist; must be of good character. Write full particulars, 260/39, Office of this Paper.

TENDERS INVITED.

TENDERS invited for Lysol packed in bottles, Hydrogen Peroxide in bottles, Smelling Salts, lavender, standard sizes. 258/37, Office of this Paper.

APPRENTICES WANTED.

APPRENTICE and Improver (the latter for six months) required immediately. Apply "Dispenser," London Jewish Hospital, Stepney Green, E.1

SITUATIONS OPEN.

RETAIL.

[HOME.]

BRIGHTON.—Qualified man wanted as First Assistant; good all-round man, with knowledge of Optics; able to take charge occasionally; references must bear full investigation. Please state age, height, salary (outdoors), and send photo. Loughran, Chemist and Optician, Brighton.

EDGWARE.—Lady Assistant required, accustomed to Toilet Counter and Window Display; Drug and Photographic knowledge would be an asset. Give full details of experience, references, salary required, etc., in first letter. John Stanley, M.P.S., 27 Welldon Crescent, Harrow.

HAMPTON-ON-THAMES.—Qualified Manager, age 25-40, required for middle-class Family, Retail and Kodak Business; permanency to capable manager. Apply, stating age, experience, salary required, references, etc., 262/580, Office of this Paper.

HARROW.—Junior or Improver wanted immediately. Apply, stating salary, F. C. Reynolds, 75 Northolt Road, Harrow.

HUDDERSFIELD.—Qualified lady; Dispensing and Relief Counter. Particulars as to previous experience, age, salary (outdoor), when disengaged, with photo (to be returned), to Johnson, Birkby Pharmacy, Huddersfield.

KENT.—Unqualified Junior Assistant for good-class Retail and Dispensing business; no Sunday duty. Full particulars, with photo, to H. Meynell, Tenterden.

LEICESTER ROYAL INFIRMARY.

DISPENSER required (male), Pharmaceutical Society's qualification, to take up duties about November 1; commencing salary £200 per annum, with lunch and tea, and £20 for extra duty in V.D. Department. Applications, with copies of recent testimonials, to the House Governor and Secretary at the Infirmary by October 13, 1928.
October 3, 1928.

LIVERPOOL.—Qualified Manager required for branch; working-class district; house available; only efficient, energetic men with sound references and abstainers need reply. State experience, references, age, salary, enclose photo. 258/33, Office of this Paper.

LONDON, W.—Gentlemanly Assistant required, age about 30; one with West-End experience preferred. Full particulars of experience and salary required to 262/10, Office of this Paper.

LONDON HOSPITAL, Whitechapel, E.1.—Assistant Pharmacist wanted; hours 9 till 5 daily, with occasional late duty; progressive salary, commencing at £200 per annum. Application, stating age, date of qualifying, and experience, to be made by letter, in own handwriting, to the Pharmacist.

LONDON, E.—Unqualified Manager required for Drug Store, with Kodak Agency; neglected now and offers scope for energetic management; living accommodation over premises. Apply, stating age, experience, references, salary required, to 262/38, Office of this Paper.

LONDON, W.—Wanted immediately, Unqualified Assistant, able to manage; smart Counterman, Prescriber and Window-dresser essential; age 30-40; middle-class trade. State height, salary and experience in first instance. 262/32, Office of this Paper.

LONDON, N.W.—Wanted immediately, well-educated Youth as Improver, with some experience Dispensing; one with incomplete apprenticeship would suit. State age, salary required (outdoor) and full particulars, to 262/31, Office of this Paper.

LONDON.—Wanted, Assistant for 1, 1½ or 2 hours, evenings, Dispensing, chiefly N.H.I. and Counter, H required; lady or gentleman; business situated within one mile of Liverpool Street Station; state remuneration, age, references, etc. 263/15, Office of this Paper.

MIDLANDS.—Two vacancies; (1) Qualified Manager for small Branch, mining district, must have undeniable references; (2) Unqualified Assistant, 25-30, with Photographic knowledge, good Counterman, unmarried; both wanted immediately; permanencies. Send copy of references, salary required, to L. H. Lester, Bridge Street, Nuneaton.

NEAR LONDON.—Unqualified Assistant wanted at once; aged about 30; must have had high-class Dispensing experience. Full particulars, including salary (outdoors), photo, etc., to 262/11, Office of this Paper.

UXBRIDGE.—Capable Junior Assistant, with good Counter and Dispensing experience, wanted immediately. Give full particulars, state salary, and enclose photo (will be returned). Brice & Son, 172 High Street, Uxbridge.

AFIRM of Photographic Chemists near the Midlands want a really capable, qualified Manager who can run a big business and control a staff; a good salary will be paid for the right man. Apply 135/699, Office of this Paper.

AJUNIOR (unqualified) Assistant required at once for N.H.I. Dispensing and Counter trade. Please state full particulars in reply to Millhouse & Lincoln, Chemists, High Street, Northfleet, Kent.

ASMART unqualified Assistant wanted for Counter and Dispensing; must be tactful and obliging. Apply, giving full particulars of age, experience, and salary required and enclosing photo if possible, to Kemp & Elmitt, Chemists, Lincoln.

ASMART unqualified Assistant (male) for modern high-class Dispensing and Toilet business; good Window-dresser and accustomed to Photography. Salary, photo and when disengaged to Wilkinson, Chemist, Hale, Cheshire.

ASSISTANT, unqualified, under 25 years, for Dispensing, Counter and Window-dressing; knowledge of Photography. State full particulars and recent reference to Milbank, Chemist, Bishop Stortford.

BRANCH Manager (qualified) required at once for North London; Light Retail, with Optics, preferred; progressive position; state experience and salary required. 264/5, Office of this Paper.

CAPABLE Junior required; must be good Window-dresser, keen Salesman, and of smart appearance. Apply Bernstein, Chemist, 128 Balls Pond Road, N.1.

CHEMIST'S ASSISTANT.—Wanted, immediately, Improver or Junior unqualified Assistant (who has served apprenticeship) for Retail Branch Drug Department, Rusholme. Apply by letter, stating age, experience, and salary required, to "M. & S.", Drug Department, 451 Stockport Road, Longsight, Manchester.

EXCEPTIONAL opening for really smart qualified Manager for Light Family and Retail business, with house attached; applicants must have had experience in a similar capacity and have real initiative. Apply, stating age, previous experience and salary required, 260/27, Office of this Paper.

EXPERIENCED Saleswoman wanted for Drugs Department. Write, stating age, experience and salary required, to 135/710, Office of this Paper.

EXPERIENCED Salesman required to take charge of Drugs Department in Departmental Stores; must be thoroughly competent, but not necessarily qualified. Write, stating full particulars as to experience, age, and salary required, to 135/711, Office of this Paper.

FOR MANCHESTER SUBURB.—A gentlemanly qualified Assistant; good Dispenser and Window-dresser; one who is thoroughly acquainted with best class business; Photography. Salary, references, photo, disengaged, to 263/29, Office of this Paper.

IMPROVER or Junior (male); outdoors; Dispensing and general Retail. Full particulars to A. W. Williams, Pharmaceutical Chemist, Taunton.

JUNIOR (lady); outdoors; unqualified; good references. State salary and usual particulars. Clare & Hunt, Ltd., Chemists, South Cliff, Scarborough.

JUNIOR or Improver wanted at once for good-class Dispensing and Retail. Apply C. Woollons, 33 The Promenade, Hendon Central, N.W.4.

JUNIOR Assistant (male) wanted October 15 for good-class business. Please state age, height, references, salary (outdoors), and enclose photo (to be returned), in first letter. W. Lincoln, Chemist, Ely, Cambs

JUNIOR Assistant, outdoors, young, unqualified, for quick Cash business; Dispensing and Counter; must be reliable. State age, height, experience, photo (if convenient), salary required. Gover, 88 Askew Road, London, W.12.

JUNIOR Assistant (male) required immediately for Retail department; one just completed a really good apprenticeship would suit; must have good knowledge of Dispensing and general Retail, and preferably accustomed to Veterinary business (latter not being imperative). State age, height, experience, salary required (outdoor), enclosing photo if possible, to Stone & Son, Ltd., Manufacturing Chemists, Exeter.

JUNIOR Assistant (male), young, for Branch, immediately; Dispensing and Counter; alternate Sunday evening duty, half-day Wednesday free. Experience, age, photo and salary, Recs, Chemists, Loughborough Junction, S.W.9.

JUNIOR Assistant wanted; must be quick and accurate Dispenser. State age, experience, and salary required. 263/37, Office of this Paper.

MANAGER.

AGE 30/35, wanted for busy branch in S.W. district; seven in staff; must have had first-class experience, good organiser, and able to get the best out of his assistants; an exceptional opportunity for a man of ability. Apply, by letter, with full particulars of experience, age, height, and salary required, to the Secretary, Parkes Chemists, Ltd., 65 Harwood Street, London, N.W.1.

MEDICAL Dispensing, Craiglockhart Hospital, Comiston Road, Edinburgh. Qualified Dispenser (male) required immediately by the Edinburgh Parish Council; full-time appointment; non-resident; meals provided; no Sunday duties; preference given to person with some knowledge of Clinical Photography or X-ray work and Hospital experience. Applications, stating age, salary required, and full particulars of previous experience, accompanied by copies of three recent testimonials, to be forwarded to the Principal Medical Officer.

OPTICS.—Reliable Assistant, with Optical qualification, able to take charge of Optical Department; knowledge of Photographic and Window Display an advantage. Full details of experience, references, salary, etc., in first letter. John Stanley, M.P.S., 27 Welldon Crescent, Harrow.

PARKES CHEMISTS, LTD., have a vacancy for a lady Dispenser (Hall Certificate), with some Counter experience. Apply, by letter, with full particulars of experience, age, height, and salary required, to the Secretary, 65 Harwood Street, London, N.W.1.

PARKES CHEMISTS, LTD., have a vacancy for an unqualified Assistant. Apply, by letter, with full particulars of experience, age, height, and salary required, to the Secretary, 65 Harwood Street, London, N.W.1.

QUALIFIED Assistant wanted for country business, to take charge of Drug Department; good-class general trade and N.H.I. Dispensing; indoors; not over 35. Please give full particulars of age, experience and salary expected. J. Marlar & Son, Ltd., Chemists and Wine Merchants, Halstead, Essex.

QUALIFIED Manager required shortly for London district; good living accommodation attached to shop; knowledge of Photography essential. Apply, giving age, experience, and salary required, to the Secretary, Shadforth Prescription Service, Ltd., 49 King William Street, London Bridge, E.C.4.

QUALIFIED Assistant for Branch; capable Counterman and Window-dresser, and with good references. Photo and full particulars, please, to Lester, Chemist, Canterbury.

QUALIFIED lady or gentleman for working-class branch, immediately. State salary and experience. Turner, Chemist, Tamworth.

QUALIFIED Assistant wanted; capable and willing; state salary, experience, etc.; permanency; comfortable berth; seaside. Letters unanswered two days declined with thanks. 262/19, Office of this Paper.

QUALIFIED Manager required for branch; private concern in Thames Valley; must be energetic, reliable, and capable of increasing returns. State age, if married, and give full particulars of experience and references to 135/715, Office of this Paper.

SMART young man, qualified, with no capital, to take over established business; purchase to stand over a period of years, and paid out of profits; excellent offer to ambitious young man. 256/22, Office of this Paper.

SMART young lady wanted; London, N.W. State age and salary required. BM/JLFK, London, W.C.1.

THE Stockport L. & E. Co-operative Society, Ltd., 27/39 Chestergate, require the services of a fully qualified Chemist (lady); the annual sales are £1,450. Applications, by letter only, endorsed "Chemist," stating age, experience, and wages required, to reach the Society not later than first post on Tuesday, October 16, 1928. By order of the Committee, S. Lloyd, General Secretary.

UNQUALIFIED Junior Assistant required; brisk Counter and N.H.I. Write, stating full particulars, to E. N. Holding, Chemist, Dagenham.

THOMPSON & CAPPER, LTD., have a vacancy for an experienced, qualified Manager; must be keen, up to date, and a good organiser; thorough knowledge of Photography is essential. Full particulars, and a photograph if possible, should be sent to Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

UNQUALIFIED lady Assistant for Wimbledon district; must be able to Dispense and well trained in all branches. State age, salary expected, and full particulars. 135/702, Office of this Paper.

UNQUALIFIED Assistant wanted for Dispensing and general Retail; age about 23 years. Send testimonials and salary required. C. Botting, 65 Sidwell Street, Exeter.

UNQUALIFIED Assistant required, South Coast; all-round man. Salary, experience, in first letter, please. 262/190, Office of this Paper.

UNQUALIFIED Assistant required, young, for Dispensing and quick Counter trade, in Manchester district. Write, giving full particulars, to 263/24, Office of this Paper.

WANTED, qualified lady Assistant, chiefly for Dispensing; would suit one recently qualified; no Sunday or Wednesday duty; permanency. State age, height, wages, etc. E. Vowles, Chemist, Wells, Somerset.

WINDOW-DRESSER AND DISPLAY ARTIST.—Young gentleman, with first-class London Store experience, required by leading West-End Chemists and Perfumiers; only those of artistic ability and with a capacity for hard work are asked to apply; the position offers unlimited scope for a man of refined ideas. Apply, with fullest particulars of experience, salary required, etc., to "Staff Manager," 135/703, Office of this Paper.

WANTED, about October 29, young Qualified Assistant with Optical qualification; one accustomed to brisk N.H.I. Dispensing and good Window-dresser essential; substantial commission on Optical work. Please state full particulars to Nidd, Chemist, Queen Park, Manchester.

YOUNG Assistant for Dispensing and Light Retail; outdoor. State salary required, enclose photo, which will be returned. H. J. Aubrey, 25 The Cross, Worcester.

YOUNG, energetic, qualified to take charge of branch in S.E. district. Apply, with full particulars, 261/14, Office of this Paper.

WHOLESALE.

A PROPRIETARY being marketed that is unique and in good demand. We are now engaging Representatives and arranging territory, London and provinces, to call upon Chemists, Dentists, Stores, Hairdressers and Wholesalers. Applications invited from experienced, clever salesmen, essentially with live connection and own car, and able pass £50 fidelity bond; salary £5 week, plus commission and expenses; progressive and permanent. Replies only considered by letter (strictly confidential), stating fullest particulars, experience, territory, age, when disengaged. Hirschfield, 31 Horse Fair, Birmingham.

ABLE Representative required, good connections with Retail Chemists, for North and East London and Irish Free State; commission 10%-20% and part expenses, £1 per week. Good Agents also required for India, Japan, Brazil, and various other overseas countries. 134/698, Office of this Paper.

ASSISTANT Perfumer, age about 24, used to soap-making plant, and to assist in compounding; excellent prospects. Write, stating experience gained and salary required, to "R. H. P.," 135/714, Office of this Paper.

EXPERIENCED Representative, already calling on Retail Chemists, required to carry as an additional line the Preparations of a house specialising in Emulsions, now supplying the Wholesale trade only; exceptional prices; commission basis only, 20%. Write full particulars, 260/32, Office of this Paper.

IMPORTERS of well-known Perfumes and Toilets require Representatives for Central London, Scotland and North-Eastern Counties; part expenses and commission. State age, experience, and references. 261/24, Office of this Paper.

INVOICE Clerk, age 25-30, required by leading firm of London Wholesale Druggists; must be quick and accurate at figures, and have had good experience. Apply, by letter, stating salary, to 135/700, Office of this Paper.

INVOICE Clerk, Junior, required for City Wholesale Druggists. Apply, by letter, stating full particulars and salary required, to 135/709, Office of this Paper.

"KRASKA" CO. has vacancy for smart lady Demonstrator, possessing experience and connection with large Stores; good saleswoman essential; salary and commission. Write full particulars to 65 Portobello Road, W.11.

MANUFACTURING PERFUMERY.—Required by a Wholesale House in the West-End of London, a qualified Chemist with experience at Perfumery and Toilet Goods. Apply, stating salary required and previous experience (in confidence), to P.C.B. 57/18, Office of this Paper.

REPRESENTATIVES required, already calling on Wholesale and Retail Chemists, to carry as side line a solution for sealing bottles; two small samples carried. Apply 134/671, Office of this Paper.

REPRESENTATIVES required for many parts to sell Medicinal Preparations, etc., on commission; only live men need apply; representatives carrying other lines not objected to; excellent scope and good prospects for the right men. 260/12, Office of this Paper.

REPRESENTATIVES required in all territories to develop present sales of high-class advertised Toilet Preparations; only real live salesmen able to prove good records and with sound connections with Chemists, Stores, and high-class Hairdressers need apply; splendid opportunity for first-grade salesmen. Write fully, with details of territory, lines carried, turnover, etc., in strict confidence, to 262/33, Office of this Paper.

SALES MANAGER required for large firm of Razor Manufacturers; should have organising experience and capable of controlling men on the road; preference given to applicants used to Chemist and Cutlery trade; traveller's experience only useless. Give fullest particulars and salary to Box 80, St. James Advertising and Publishing Co., Ltd., Gresham House, Old Broad Street, E.C.2.

TRAVELLER, with connection among Doctors, Chemists and Veterinary Surgeons, required in Lancs and N. Wales district by old-established London Wholesale Druggists. Particulars (in confidence) to "Senega," 135/708, Office of this Paper.

15 PER CENT. commission; well-known Proprietary; easy seller; ground open, East Coast, Home Counties, West England; state exactly ground covered, how often, other lines; small sample; not pioneering; connection handed over; a real good line. 259/29, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN).

BRITISH DOMINIONS.—Energetic young unmarried men open to take service with an enterprising house in an expanding British Dominion are invited to address "X. Y. Z.," 135/701, Office of this Paper.

CANADA.—Pharmacist required to represent important firm manufacturing Pharmaceutical Specialities; fluent French essential; should have knowledge of detail work and office experience. Full particulars, stating age, qualifications, experience, and salary required, photo, 134/697, Office of this Paper.

SOUTH AFRICA.—A qualified Assistant required for a first-class business; a good opening with excellent prospects for a young man of exceptional merit; must be unmarried; passage paid out. Apply, by letter only, to "L.," 14 Lafone Street, London, S.E.1.

SITUATIONS WANTED.

RETAIL. [HOME.]

A.A.A.—EXPERIENCED, all-round man desires post where study of employer's interest would be appreciated; abstainer; middle-aged; active; married; London or near; offers invited; unqualified; disengaged. BM/ZP6N, London, W.C.1.

A.A.A.—EXPERIENCED Assistant, unqualified, 25, desires post good-class business; London only (City preferred); temporary or permanent; free November 5; attending evening classes. "D.," c/o 17 Castellain Road, W.9.

A.A.—AT once; first-class Qualified Locum; liberty October 12 to 20 inclusive; six guineas, plus fare. 'Phone Hove 4045, or write "Pharmacist," 17 Cambridge Road, Hove.

A.—QUALIFIED desires change; Counter, Dispensing experience; London preferred; low salary. "Genaspirin," 45 Lynette Avenue, S.W.4.

A CAPABLE lady Dispenser desires post, Doctor, Chemist or Hospital; six years' Dispensing experience with Doctor; three years' nursing. "V.," The Chalet, Park Side, Westcliff-on-Sea, Essex.

A S Dispenser to Chemist or Doctor; thoroughly experienced in both; distance immaterial; unqualified. "C. H.," 43 Quernmore Road, N.4.

A RELIABLE Qualified Man; excellent references; middle-aged; anything. "Chemist," 22 Cotton Lane, Moseley, Birmingham.

A CCOMMODATION required.—Qualified at present managing business in Victoria, desires Managership, with house available. 135/713, Office of this Paper.

A CTIVE Manager; 7 years' managing experience; age 33; town or country; responsible position required. 250/8, Office of this Paper.

A N experienced Manager, or Locum, good all-round experience, Window-dresser, Photo, N.H.I., energetic and reliable, references first class, desires post in busy shop; free soon. F. A. Singer, 17 Bruce Grove, N.17.

A S Manager; qualified; thorough all-round experience; preferably with view to succession or interest in business; disengaged; Midlands preferred. 256/21, Office of this Paper.

A S Manager, Senior or Locum; good general experience; Prescriber, Salesman, Buyer; Stores or live business wanted; neglected ones doubled, or view purchase. "G.," 130 Scott-Ellis Gardens, N.W.8.

A S Manager of Locum; good Dispenser and Counterman; moderate salary; qualified; middle-aged. "Felsol," 34 Kingscote Road, Addiscombe, Croydon.

A S qualified Assistant or Manager; 23; excellent experience (including two years at Harrogate); now managing; West Riding preferred. Firth, 23 Beckett Road, Doncaster.

A SSISTANT; 33; married; 12 years' experience; good-class Retail, Dispensing and Photographic business, with living accommodation preferred, but not essential. Andrews, 101 Boundary Road, St. John's Wood, N.W.8.

A SSISTANT; 24; unqualified; 7 years' experience (including West-End). West, 28 Willoughby Road, Acton Vale, W.3.

A SSISTANT, age 21, just qualified, desires experience in good-class business; salary £4 weekly. Write D. Vaughan, "Oakdene," Berriedale Avenue, Hove.

A SSISTANT; 30; unqualified; free soon; middle-class business; permanency; all branches; good worker. "K.," "Brisbane," Highfield, Southampton.

A SSISTANT, 25, unqualified (referred Part II), desires temporary post; high-class Dispensing experience. Smith, Bockhampton, Lambourn, Berks.

A SSISTANT (referred Pharmaceutical Chemistry) requires post in London or suburb; 5 ft. 8 in.; 21; experienced; capable; tactful Saleswoman; interview if required. Miss Coulthard, 86 Union Road, Clapham, S.W.4.

A SSISTANT; unqualified; Locum or permanent; London; all-round experience; can manage; disengaged. "Radix," 72 Tremadoc Road, Clapham, S.W.4.

A SSISTANT, middle-aged, life experience, requires situation, any position. Apply "M.B.," c/o 27 Lancaster Gardens, Southend.

A SSISTANT; 34; unqualified; good, varied experience in Dispensing, Counter, Windows and Photography; permanency preferred; trustworthy and competent; good references; Lancs or Yorks preferred, but not essential. Offers to "Assistant," c/o W. Drinkwater, M.P.S., 510 Liverpool Road, Patricroft, Manchester.

A SSISTANT or Locum; London district; unqualified; middle-aged; experienced Dispenser. G. Fall, 105 Tottenham Lane, Hornsey, N.8.

A SSISTANT; qualified; middle-aged; N.H.I. Dispenser; experienced; able take charge; Stock-keeper, etc. 262/26, Office of this Paper.

A SSISTANT (25), unqualified, with good all-round experience, requires berth; good references; now disengaged. 264/9, Office of this Paper.

A SSISTANT (19½); tall; energetic; experienced; Dispensing, Counter and Photographic; Liverpool or S.W. Lancs. preferred. 263/30, Office of this Paper.

A SSISTANT, 21, 5 ft. 11 in., seven years present situation, first-class pharmacy, taking Part I Christmas, desires London experience, West End preferred. 263/19, Office of this Paper.

A SSISTANT; 27; married; good all-round experience; Dispensing, Counter, Window-dressing, etc.; willing commence end of November; unqualified; energetic and capable of taking charge. Write 263/4, Office of this Paper.

A T liberty, qualified man; experienced; full or part time; moderate salary. "Pharmacist," Wesley Lauriston, Disraeli Road, W.5.

C APABLE, all-round Assistant (lady); 21; active; obliging; methodical; up-to-date Saleswoman, Window-dresser, etc.; first-class (6 years') London experience; Dispensing excepted; London area only. 261/400, Office of this Paper.

C LERICAL (Book-keeping, etc.); any kind; terms moderate. Write "X. Y. Z.," 254/20, Office of this Paper.

D ISENGAGED; Locum or permanency; West-End experience. Arthur, 62 Caldecot Road, Denmark Hill, S.E.5.

D ISENGAGED.—Chemist; Locum or permanent; all-round experience; excellent references. A. Bone, 9 Claremont Place, Camden Road, Bath.

D ISENGAGED; qualified; good business record in the management of both London and country businesses; permanent position sought where initiative, keen interest and loyal service would be appreciated; good references; interview desired; locum tenens or temporary engagement entertained. "Chemist," 68 Horder Road, S.W.6.

D ISENGAGED 19th inst; qualified; all-round experience; Locum (or permanency London). "M.P.S.," c/o Mr. Pilgrim, Chemist, Margate.

D ISENGAGED.—Pharmacist, thorough experience all branches, requires post. 262/24, Office of this Paper.

D ISPENSER to Chemist or Doctor, in London; 7 years Retail, 2½ years Surgery; referred one subject Part II. Tippen, 147 High Street, Clapham, S.W.4.

D ISPENSER (woman); disengaged; Hall qualification; accustomed to books, Panel, care of instruments, etc. 25 Beach Avenue, Westcliff-on-Sea, Essex.

D ISPENSER; qualified; woman; experienced; care of instruments, books, Panel. Address "Q. E. D.," c/o Carson, 31 Queen Anne's Chambers, Tothill Street, S.W.1.

DISPENSERSHIP or Manager; middle-aged; single; conscientious; wide experience; Prescriber; abstainer; full or part-time; moderate terms. "Chemist," 53 Louis Street, Leeds.

EXPERIENCED Assistant; unregistered; well recommended; can manage; exceptionally good at Counter, Prescribing, Dispensing; equitable salary for permanency; kindly quote salary offered; disengaged. "Photoptic," 21 Albion Place, Maidstone.

EXPERIENCED qualified Chemist desires permanency in good-class business as Manager or Senior Assistant; accurate Dispenser; capable and trustworthy; excellent testimonials; age 6; height 6 ft.; London experience. 262/13, Office of this Paper.

EXPERIENCED Assistant seeks change; outdoor; unqualified; swift, amiable, obliging worker; six years' present berth. 54/6, Office of this Paper.

LONDON or district preferred; Assistant; unqualified; permanent or temporary; experienced; willing. D'earth, 506 Green Lane, Seven Kings, Essex.

JUNIOR; tall; all-round experience; London or South Wales preferred, not essential. "S," 6 Rochester Terrace, Auckland Hill, S.E.27.

JUNIOR, experienced Dispenser, Counterman and Photography, would like a post near a School of Pharmacy; thoroughly efficient and trustworthy; tall; of good appearance. J. Hughes, Apothecaries Hall, Holyhead.

JUNIOR, young, unqualified, 2 years Medical Student, Counter, Dispensing, excellent Salesman, taking Part I June, requires progressive position in W. S.W. London. "K," "Summerfield," West Park Road, Kew.

LADY Dispenser (Hall) desires re-engagement; Book-keeping; some V.A.D.; experience with Doctors, Chemist; references. 257/13, Office of this Paper.

LADY, qualified, thoroughly experienced all branches Retail, requires Locums or part-time permanency. Hughes, 50 Albion Road, Hampstead.

LADY, eight years' Dispensing-Counter experience, requires situation; Birmingham area (previous Birmingham experience). Williams, "Montgomery," Hermosa Road, Teignmouth.

LADY, referred Pharmacy, requires situation; seven years' experience; Photographic and Dispensing; country and town references; town preferred. "Nan Crawford," "The Brackens," Tane Lane, Midhurst, Sussex.

LADY Dispenser (Hall) requires post with Doctor or Institution, preferably North of England; Hospital experience; good references; own typewriter; temporary or permanent. Miss Walliser, Queen's Road, Blackhill, Durham.

LADY Dispenser (Hall) requires post, whole or part time, with Doctor, Dispensing and Book-keeping, or Chemist for N.H.I. work; 11 years' Institutional work; excellent references. 261/30, Office of this Paper.

LADY Assistant, 21, 6 years' experience, desires Toilet Counter work, or to Chemist (dispensing excepted); thoroughly competent both branches; highest references; London area only. 261/40, Office of this Paper.

LADY (Hall), 5 years' experience with London Chemist, taking Minor, would like post in London or Sussex. 261/23, Office of this Paper.

LADY (Minor qualification), 22, desires situation, London or East Anglia district; experienced Dispenser, Counter and Window-dressing; now disengaged; excellent references. 262/36, Office of this Paper.

LIVE; experienced; qualified; Photographic, Agricultural, Dispensing; month's trial; £4 weekly; North preferred; disengaged; interview. "Chemist," 41 Kirkgate, Ripon.

LOCUM or emergency relief; competent and reliable; any period, winter months. "Cymro," "Wynnstay," 22 Princes Street, Rhyl.

LOCUM or Superintendent; qualified; experienced Dispenser and as Branch Manager; moderate salary. "Pharmacist," 37 Union Street, Wednesbury.

LOCUM; Student, referred one subject Part II; London; 7 years one situation; age 28; married; could take charge. 147 High Street, Clapham, S.W.4.

LOCUM or permanency; disengaged immediately; fully experienced Dispenser; all-round man. "Ajax," 4 Alexandra Road, South Woodford, London.

LOCUM; qualified; experienced; disengaged shortly; long or short periods. "F," 119 Fairlands Avenue, Thornton Heath.

LOCUM or emergency relief; disengaged; any period; all-round experience; highest references. "Chemicus," 239 Camherwell New Road, S.E.5.

LOCUM or permanency; qualified; tall; good appearance; highest references; disengaged. Jones, 7 Grosvenor Gardens, East Sheen, S.W.14.

LOCUM; qualified; 32; excellent all-round experience and thorough practical Photographic knowledge; disengaged October 29. 263/27, Office of this Paper.

IAM the young Chemist you are looking for to manage your Branch Pharmacy near Manchester; good appearance, smart Window-dresser, in all a reliable man; references. "Statim," 36 Norman Road, Stalybridge.

JUST qualified, 22, desires post in first-class Dispensing and Retail business, preferably London; good address; all-round experience; excellent references; total abstainer. "W. H. M.," 7 The Crescent, Maidenhead.

MANAGER; experienced; Dispensing, Counter, Photography; disengaged end of month; London or near. "Qualified," 23 Cranbrook Road, Ilford.

MANAGER or Locum; qualified; 42; own business last 9 years; used to Dispensing (N.H.I.) and Photographic; good Window-dresser; fair knowledge of Optics; Southampton or South Coast district preferred. "M.P.S.," 5 Tadburn Road, Romsey, Hants.

MANAGER; 31; married; good all-round experience (now managing); South or West England preferred; excellent references; disengaged November. 261/35, Office of this Paper.

MANAGER; qualified; Store or Family trade; experienced; Counter, Dispensing, etc. 262/37, Office of this Paper.

MANAGER, 27, 6 ft., desires change of management and offers services to Pharmacist who desires a keen manager. Arrange terms, or any particulars, in first place, 263/28, Office of this Paper.

MANCHESTER DISTRICT.—Lady Pharmacist requires position with Doctor, Chemist or Institution; afternoons and evenings preferred; excellent references. 263/8, Office of this Paper.

M.P.S., 31, married, desires post as Manager; good experience (now managing). South or West preferred; excellent references. 243/11, Office of this Paper.

M.P.S., 25, desires permanency as Senior or Branch Manager; Nottinghamshire preferred; varied experience; at present managing. "Pharmacist," c/o 37 Wharncliffe Street, Rotherham.

M.P.S., MANAGER; 37; married; first-class West-End and suburban experience; West London or Thames Valley; permanency. 260/18, Office of this Paper.

M.P.S., 22, 5 ft. 8 in., desires Dispensing position in West-End London Pharmacy; reliable; excellent testimonials; completed 6 months' Locum; disengaged. Apply "North," 258/30, Office of this Paper.

M.P.S., B.Sc., young lady, requires post, Hospital or Office of this Paper.

M.P.S., 25, at present managing, desires post as Manager or Senior; keen, energetic, and an accurate Dispenser. 261/8, Office of this Paper.

M.P.S., YOUNG lady; 7 years' varied experience; excellent references; disengaged. Bessie M. Peake, 9 Tunstall Terrace, Sunderland.

M.P.S., 32, desires permanency as Manager; Liverpool or suburbs; good all-round experience; accurate Dispenser; Photographic, etc.; energetic; conscientious; good references. "M.P.S.," 26 Kirkdale Vale, Kirkdale, Liverpool.

M.P.S., 24, desires position as Manager or Assistant; best experience in all branches. 263/10, Office of this Paper.

M.P.S., UNIVERSITY Graduate, with excellent experience in all branches of Retail trade, seeks good post in London. P.C.B. 59/170, Office of this Paper.

PART-TIME; reliable Dispenser; evenings from 6.30, Saturday (1.30) and Sundays. G. Rogerson, 23 Arming Road, W.12.

PART-TIME Dispensing (referred Part II); any time except two afternoons. "K," 20 Corrance Road, Brixton, S.W.2.

PART-TIME duties in London, or Locum Tenency. "Ph.C.," 55 Drewstead Road, Streatham, S.W.16.

PERMANENCY.—Assistant; thoroughly competent all branches; first-class Dispenser, excellent Counterman; accustomed management; age 39; unqualified; height 5 ft. 9½ in.; salary £3 10s. weekly. 263/12, Office of this Paper.

PHARMACIST, 30, married, desires position as Manager; thoroughly experienced; keen; London preferred. 262/28, Office of this Paper.

P.H.C., F.S.M.C., 25, tall, excellent references, Northampton district preferred. 260/11, Office of this Paper.

QUALIFIED, excellent all-round experience, accustomed to sole management, desires permanency as Manager; any locality; town or country; married; well recommended; total abstainer. "Statim," 9 Ash Tree Road, Bitterne Park, Southampton.

QUALIFIED, 24, desires situation in or near London, with facilities for attending Optical Lectures. Brierley, Draycott, Derby.

QUALIFIED lady, Scotch, seeks position as Senior Assistant or Manager; 9 years' good-class experience, Dispensing, Counter, Photographics; well recommended; disengaged shortly. English, Sherbourne House, The Butts, Coventry.

QUALIFIED, 23, desires post; West-End, provincial and suburban experience; disengaged. R. Morgan, Upper High Street, Bargoed, Glam.

QUALIFIED, 23, single, 7 years' all-round experience, desires position, large town; Manchester or Birmingham preferred; references. 260/31, Office of this Paper.

QUALIFIED (recently), 21, Square trained, requires situation as Senior or Manager; good references. W. Ziman, 66 Kenninghall Road, London.

QUALIFIED, 31, married, seeks post; experienced all branches. Griffiths, "Werfa," Henllan, Cards.

QUALIFIED, 24, tall and well educated, desires change; offering good-class experience. 261/17, Office of this Paper.

QUALIFIED; competent; used to control; age 31; married; capable manager; interview Plymouth or Exeter; London experience. "Scot," 261/39, Office of this Paper.

QUALIFIED; accustomed to high-class Pharmacy; tall; smart; age 24; available econ. Apply 264/8, Office of this Paper.

QUALIFIED, wide experience, wants position as Manager to widow or small company; can adapt self to any class of trade; London preferred, but not essential; good references. "H. R. D.," 17b Canonbury Square, N.1.

REFERRED Student (one subject Part II) seeks situation with Chemist or Doctor in London; age 28 years; married; experienced; Dispensing Assistant and Surgery Assistant. "E. A. T.," c/o Cole, Chemist, 4 Streatham Vale, S.W.16.

S.E. **PREFERRED**; thoroughly competent and trustworthy Manager; French (fluent) and German; over 15 years' West-End experience; energetic and up to date; qualified; disengaged October 20. Griffiths, 46 Chalsey Road, S.E.4.

SOUTH WALES.—Qualified, 24, desires post, Branch Manager or Assistant; 8 years' experience; excellent Salesman. Window-dressing, high-class Dispensing; undeniably references. 260/8, Office of this Paper.

UNQUALIFIED; age 26; 10 years' good experience in Dispensing and Counter; excellent references; married; disengaged. Wellington, 39 Lavender Gardens, Clapham Junction, S.W.11.

YOUNG lady desires position; Birmingham preferred, not essential; 7 years' experience; referred subject Part II. Hollender, 5 Mountrath Street, Walsall.

YOUNG Man desires position as Assistant; five years' all-round experience; excellent references; South London district preferred; disengaged October 29. Ernest Weatherley, 26 Branksome Road, Brixton, S.W.2.

WHOLESALE.

ADVERTISER, first-class connection London Stores, Chemists, Ladies' Hairdressers, open for whole-time representation, on salary and commission basis. 261/38, Office of this Paper.

ADVERTISER desires representation, Wales, Border Counties, Bristol, West of England; sound connection Chemists, Hairdressers, Stores, etc.; highest references employers and customers. 262/5, Office of this Paper.

CHEMIST (qualified), in own business for 20 years, now desires change to outdoor work; healthy, active, and not afraid of work; Drug House representation or medical propaganda work in Lancs. preferred; salary £250-£300. Write 260/16, Office of this Paper.

GENTLEMAN, young, experienced Pharmacist; good education, desires to represent good-class Drug Firm or similar; Cheshire, Derbys, Notts, Lincs. "S. L.," 90 Foster Street, Lincoln.

HIGHLY qualified Pharmacist, University graduate, with Laboratory and propaganda experience, seeks post with good prospects. P.C.B. 59/17, Office of this Paper.

NORTHERN IRELAND.—Traveller, with sound established connection, Wholesale and Retail Chemists, open to represent first-class firm; Sundries, Toilet, Packed Goods, etc.; salary and commission. 263/25, Office of this Paper.

PERFUMERY AND TOILET PREPARATIONS.—Representative, at present with leading house, desires change; excellent connection Southern Counties, Chemists, Hairdressers, Stores. 262/8, Office of this Paper. Will advertiser please send name?

PHARMACIST seeks outdoor position; travelling experience; no connection; own car. Please apply "Pharmacist," 261/20, Office of this Paper.

QUALIFIED, age 29, Retail, Hospital and Manufacturing experience (including the manufacture of animal products), at present managing a retail business, desires a position as Representative to a firm of repute. 135/712, Office of this Paper.

REPRESENTATIVE, 10 years' sound connection Eastern Counties, Chemists and Hairdressers, Toilets and Medicinals, desires similar post; 1928 salesman. 260/2, Office of this Paper.

RESIDENT Representative, Leeds and district; connection essential; Photographic, Wines, Optical, etc.; whole or part time, or Locum. 263/11, Office of this Paper.

TRAVELLER, with sound connection with London and suburban Chemists; disengaged. 135/716, Office of this Paper.

WESTERN COUNTIES, SOUTH WALES.—Experienced, energetic gentleman, age 37, excellent connection and references, seeks representation or other position with first-class house. "C. R. P.," 7 Pwllmawr Avenue, Rumney, Cardiff.

(COLONIAL, INDIAN AND FOREIGN.)

IRISH Chemist (L.P.S.I.), under 30, with 12 years' experience, seeks situation Southern Rhodesia or Kenya Colony for January, 1929. 135/707, Office of this Paper.

FOR SALE.

FOR Sale, 9 gross new Cardboard Postal Boxes, 3½ x 2½ x 2½ at 14s. per gross; ditto, 4 gross 3 1/16 x 2½ x 2½ at 11s. 6d.; suitable for pomades. Rheumsnow Co., Liverpool Road, Stoke-on-Trent.

SHAVING Cream, Enolin, marked 1s. 6d. large tube, well cartoned, 4s. 9d. dozen; Enolin Dentifrice, small 2s. 3d., large 4s. 2d. dozen; Enolin Tooth Paste, 7½d. 2s. 2d. dozen; Gillette Pattern Blades, Astor, 4s. 6d. gross; Wanie, 9s. gross; Cork and Fleecy Socks, women's, 2s. to 7s., 9s. gross, carriage paid £2. A. Swinglehurst, Newbridge, Nelson.

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MISCELLANEOUS.

CHEMIST FITTINGS.—Complete Fittings in stock. Ranges of Drug Drawers with glass labels, shelving and lockers, glass-fronted Counters, Dispensing Screens, Wall Cases, etc.; all-made in sections which any local man can fix. Also Second-hand Fittings, Shop Rounds (ribbon and recess labels); Cash Tills from 15s. 6d.; Kwik-Sale Case, special Chemist design. **D. MATTHEWS & SON, Chemist Fitters, 14 and 16 Manchester Street, Liverpool.**

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO., 219 Old Street, London, E.C.1.**

£77 10s. for set of Mahogany Fittings, consisting of 10 ft. Drug Run fitted glass-knobbed and labelled drawers, lockers, etc., 8 ft. glass-fronted Counter, 6 ft. Wall-case, 6 ft. Dispensing Screen, Perfumery Case and Desk, Cash Till; would separate; illustrations on request. **E. BERG, LTD., 336 Old Street, London, E.C.1.**

£135.—**COMPLETE SET OF MAHOGANY PULLEYS**. 14 ft. Drug Fitting with showcase, drawers, cupboards, cornice, shelving, etc.; 8 ft. Wall Case with sloping cases in centre; 7 ft. handsome Dispensing Screen with drawers and counter at back; 12 ft. glass-fronted Serving Counter with drawers and shelves at back; 4 ft. plate-glass Counter Case; Perfumery Showcase and Desk, Silent Salesman, 4 ft. all-glass Counter, plate-glass Circular Display Stand; ready for despatch. Sketches and particulars free on application. **PERCY R. E. JOSEPHS, 68 Old Street, 1/5 Tilney Court, London, E.C.1.** Phone: Clerkenwell 0929.

£170.—**UNIQUE SET OF PHARMACY FITTINGS** in solid Fumed Oak, comprising 2 x 10 ft. Display and Stock Fittings, all with sliding doors; 2 x 5 ft. Pharmacy Fittings with drug drawers, etc.; these are all sectionalised; 4 x 2 ft. Wall Showcases with sliding doors; 2 full-sized Plate-glass Mirrors; Glass Front Serving Counter with drawers, etc., at back; exceptionally handsome Dispensing Screen; Check Till. Really the finest looking set on the market, and ready for delivery and erection this day. Call and view. Can be adapted to any size shop. **PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, London, E.C.**

FOR Sale, Werner jacketed Mixers and steam jacketed Copper Boiling Pans. Write 134/681, Office of this Paper.

FOR Sale, single porcelain Roller Mill; rolls 13½ in. diameter, 15½ in. long. Write 134/682, Office of this Paper.

FOR immediate disposal, Alsing type Ball Mill, Silex lined; also cast iron Ball Mill. Write 134/683, Office of this Paper.

FOR quick sale, cylindrical and also "U"-shaped Drying Machines with agitators. Write 134/684, Office of this Paper.

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FOR Sale, single pot also double pot Ball Grinding Mill, also Tube Filling Machine. Write 134/687, Office of this Paper.

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WANTED.

MAHOGANY SHOWCASE or Dispensing Screen, 6 x 5 ft.; shallow. S. Darke, Ltd., South Shields.

HAND-PROPELLED PILL-COATING MACHINE. State price and particulars. R. Hardy, 179 Whitam Road, Sheffield.

GOWER, Chemists' Bookseller, 41 Voltaire Road, Clapham, wants Pharmaceutical Books, including Pharmaceutical Formulas; B.P.C., P.J.F., Optical Books.

SIFTER AND MIXER, combined machine, required, second-hand, in good working condition; hand and power; capacity about 100 lbs. P.C.B. 59/11, Office of this Paper.

CHEMISTS' FITTINGS, mahogany, up to date; two Wall Case and Drug Fitting, each about 12 ft. long; Glass Counters, Showcase, Front Counter and small Cases, etc. Write 261/16, Office of this Paper.

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